

**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	Background	Background	Background	Background	HIM-A1	HIM-A1	HIM-A1	HIM-A2	HIM-A2
					Sample ID	HIM-BGD-06-09092016-51	HIM-BGN-06-09082016-51	HIM-BGS-06-09092016-51	HIM-BGW-06-09082016-51	HIM-A1-06-09072016-51	HIM-A1-18-09072016-51	HIM-A1-24-09072016-51	HIM-A2-18-09072016-51	HIM-A2-24-09072016-51
					Date	9/9/2016	9/8/2016	9/9/2016	9/8/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	0-6	0-6	0-6	0-6	0-6	06-18	18-24	06-18	18-24
					Type	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
					--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B														
Mercury	7439-97-6	mg/kg	1.1	11	--	0.0876	0.202	0.13	0.529	0.106	0.0919	0.0365	0.0299 J	0.0276 J
Metals, ICP 6010C Total														
Aluminum	7429-90-5	mg/kg	7700	77000	--	8890 D	7770 D	12600 N	10500 D	10500 D	13700 D	14900 D	13800 D	36200 D
Antimony	7440-36-0	mg/kg	3.1	31	--	5.37 U	5.38 U	1.14 UN	5.12 U	5.42 U	5.79 U	6.01 U	6.01 U	6.85 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	9.55 JD	3.23 U	15.8	5.55 JD	19.6 D	11.5 JD	15.1 D	11.1 JD	10.2 JD
Barium	7440-39-3	mg/kg	1500	15000	--	189 D	93.3 D	182 N*	209 D	337 D	335 D	139 D	155 D	89.1 D
Beryllium	7440-41-7	mg/kg	16	160	--	1.07 U	1.08 U	0.796 J	1.02 U	1.08 U	1.16 U	1.2 U	1.2 U	1.37 U
Cadmium	7440-43-9	mg/kg	7.1	71	--	1.07 U	1.08 UXQ	0.227 U	1.02 UXQ	1.08 U	1.16 U	1.2 U	1.2 U	1.37 U
Calcium	7440-70-2	mg/kg	NP	NP	--	2040 JD	1080 U	1620	2070 JD	1310 JD	1160 U	1200 U	1200 U	1370 U
Chromium	7440-47-3	mg/kg	NP	NP	--	30 D	8.15 JDY	57 N	34.3 DY	54.8 D	36.5 D	58 D	30.9 D	40.8 D
Cobalt	7440-48-4	mg/kg	2.3	23	--	13.5 D	5.38 U	17.7	12.2 JD	68.5 D	19.6 D	28 D	22.9 D	8.39 JD
Copper	7440-50-8	mg/kg	310	3100	--	32 D	61.7 D	14.4	34.5 D	88.1 D	23.2 D	13.9 D	10.3 JD	18.8 D
Iron	7439-89-6	mg/kg	5500	55000	--	30000 D	14800 D	49800 N	46000 D	81500 D	39200 D	57300 D	39400 D	42100 D
Lead	7439-92-1	mg/kg	400	400	--	94.1 D	108 D	79.4 N	226 D	145 D	76.4 D	45.4 D	62.1 D	32.9 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	1070 U	1080 U	744 JN	1020 U	1080 U	1160 U	1200 U	1200 U	2510 JD
Manganese	7439-96-5	mg/kg	180	1800	--	1080 D	222 DY	2160 N*	1540 DY	3530 D	2750 D	1870 D	2120 D	597 D
Nickel	7440-02-0	mg/kg	150	1500	--	10.3 JD	5.21 JD	10	13.3 D	81.2 D	10.9 JD	9.42 JD	6.38 JD	14 D
Potassium	7440-09-7	mg/kg	NP	NP	--	1070 U	1080 U	442 JN	1020 U	1080 U	1160 U	1200 U	1200 U	1370 U
Selenium	7782-49-2	mg/kg	39	390	--	3.22 U	5.38 UXM	1.59 J	4.1 UXM	3.25 U	5.79 UM	4.81 UM	3.61 U	4.11 U
Silver	7440-22-4	mg/kg	39	390	--	1.07 U	8.6 UYM	0.329 J	8.19 UYM	1.08 U	1.16 U	1.2 U	1.2 U	1.37 U
Sodium	7440-23-5	mg/kg	NP	NP	--	1070 U	1080 UX	227 UN	1020 UX	1080 U	1160 U	1200 U	1200 U	1370 U
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.22 U	3.23 U	0.939 J	3.07 U	4.49 JD	3.47 U	3.61 U	3.61 U	4.11 U
Vanadium	7440-62-2	mg/kg	39	390	--	45.4 D	23.1 D	94.4	71 D	67.3 D	73.8 D	98.2 D	70 D	88 D
Zinc	7440-66-6	mg/kg	2300	23000	--	163 D	218 D	88.4 N	339 D	160 D	94 D	43.1 D	35.9 D	56 D
PCBs, PCB 8082A														
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.241 U	0.261 U	0.287 UN	0.23 U	0.00468 U	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.241 U	0.261 U	0.287 U	0.23 U	0.00468 U	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.241 U	0.261 U	0.287 U	0.23 U	0.00468 U	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.241 U	0.261 U	0.287 U	0.23 U	0.00468 U	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.241 U	0.261 U	0.287 U	0.23 U	0.00468 U	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.241 U	0.261 U	0.287 U	0.23 U	0.593	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.241 UXQ	0.261 U	0.287 UNXQ	0.23 U	0.243	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.241 U	0.261 U	0.287 U	0.23 U	0.00468 U	0.0499 U	0.00499 U	0.005 U	0.00577 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.241 U	0.261 U	0.287 U	0.23 U	0.00468 U	0.0499 U	0.00499 U	0.005 U	0.00577 U
SVOCs, SMS BNA 8270D REG														
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 UY	0.1 UY	0.1 UY	0.101 UY	0.115 UY
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.441 U	0.0937 UQ	0.0972 U	0.0884 UQ	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	1.76 U	0.375 U	0.388 U	0.353 U	0.373 U	0.4 U	0.4 U	0.403 U	0.46 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	Background	Background	Background	Background	HIM-A1	HIM-A1	HIM-A1	HIM-A2	HIM-A2
					Sample ID	HIM-BGD-06-09092016-51	HIM-BGN-06-09082016-51	HIM-BGS-06-09092016-51	HIM-BGW-06-09082016-51	HIM-A1-06-09072016-51	HIM-A1-18-09072016-51	HIM-A1-24-09072016-51	HIM-A2-18-09072016-51	HIM-A2-24-09072016-51
					Date	9/9/2016	9/8/2016	9/9/2016	9/8/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	0-6	0-6	0-6	0-6	0-6	06-18	18-24	06-18	18-24
					Type	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
					--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	4.41 U	0.937 U	0.972 UNX	0.884 U	0.934 UX	1 UX	1 UX	1.01 UX	1.15 UX
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	1.76 U	0.375 U	0.388 U	0.353 U	0.373 U	0.4 U	0.4 U	0.403 U	0.46 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	1.76 U	0.375 U	0.388 U	0.353 U	0.373 U	0.4 U	0.4 U	0.403 U	0.46 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	4.41 U	0.937 U	0.972 UX	0.884 U	0.934 UX	1 UX	1 UX	1.01 UX	1.15 UX
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	1.76 U	0.375 U	0.388 U	0.353 U	0.373 U	0.4 U	0.4 U	0.403 U	0.46 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	1.76 U	0.375 U	0.388 U	0.353 U	0.373 U	0.4 U	0.4 U	0.403 U	0.46 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.441 U	0.0937 UQ	0.0972 U	0.0884 UQ	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.441 U	0.0937 UQ	0.0972 U	0.0884 UQ	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.237 J	0.1 U	0.1 U	0.101 U	0.115 U
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.306 J	0.1 U	0.1 U	0.101 U	0.115 U
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.493	0.108 J	0.1 U	0.101 U	0.115 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.234 J	0.1 U	0.1 U	0.101 U	0.115 U
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.184 J	0.1 U	0.1 U	0.101 U	0.115 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	1.11 JB	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.463	0.1 U	0.1 U	0.101 U	0.115 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.441 U	0.0937 UQ	0.0972 U	0.0884 UQ	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 UX	0.1 UX	0.1 UX	0.101 UX	0.115 UX
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.441 U	0.0937 UQ	0.0972 U	0.0884 UQ	0.493	0.1 U	0.1 U	0.101 U	0.115 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	Background	Background	Background	Background	HIM-A1	HIM-A1	HIM-A1	HIM-A2	HIM-A2
					Sample ID	HIM-BGD-06-09092016-51	HIM-BGN-06-09082016-51	HIM-BGS-06-09092016-51	HIM-BGW-06-09082016-51	HIM-A1-06-09072016-51	HIM-A1-18-09072016-51	HIM-A1-24-09072016-51	HIM-A2-18-09072016-51	HIM-A2-24-09072016-51
					Date	9/9/2016	9/8/2016	9/9/2016	9/8/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	0-6	0-6	0-6	0-6	0-6	06-18	18-24	06-18	18-24
					Type	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample	Field Sample
					--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.441 UY	0.0937 U	0.0972 UY	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.28 J	0.1 U	0.1 U	0.101 U	0.115 U
Isophorone	78-59-1	mg/kg	570	13000	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.441 U	0.0937 UQ	0.0972 U	0.0884 UQ	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	1.76 U	0.375 U	0.388 U	0.353 U	0.373 U	0.4 U	0.4 U	0.403 U	0.46 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.386	0.1 U	0.1 U	0.101 U	0.115 U
Phenol	108-95-2	mg/kg	1900	19000	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.0934 U	0.1 U	0.1 U	0.101 U	0.115 U
Pyrene	129-00-0	mg/kg	180	1800	--	0.441 U	0.0937 U	0.0972 U	0.0884 U	0.682	0.1 U	0.1 U	0.101 U	0.115 U
WC_PERCENT_SOLIDS_2540B														
% Solids	NA	%	NP	NP	--	91		85						

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-A2	HIM-A4	HIM-A5	HIM-A6	HIM-A6	HIM-A7	HIM-A7	HIM-A8	HIM-A8	HIM-B1		
					Sample ID	HIM-A2-48-09072016-51	HIM-A4-24-09072016-51	HIM-A5-24-09072016-51	HIM-A6-24-09072016-51	HIM-A6-48-09072016-51	HIM-A7-24-09072016-51	HIM-A7-48-09072016-51	HIM-A8-24-09072016-51	HIM-A8-48-09072016-51	HIM-B1-06-09072016-51		
					Date	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016		
					Depth (inches)	24-48	18-24	18-24	18-24	24-48	18-24	24-48	18-24	24-48	18-24	24-48	0-6
					Type	Field Sample	Field Sample										
					--	--	--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B																	
Mercury	7439-97-6	mg/kg	1.1	11	--	0.0415 J	0.0169 J	0.0882	0.1	0.165	0.262	1.22	0.132	0.0155 U	0.602		
Metals, ICP 6010C Total																	
Aluminum	7429-90-5	mg/kg	7700	77000	--	32100 D	13200	11900	22500	73000	74400	15200 D	21600 D	10200	9860 D		
Antimony	7440-36-0	mg/kg	3.1	31	--	6.52 U	1.21 U	1.18 U	1.65 J	6.64	7.51	2.96 JD	3.9 JD	1.13 U	5.47 U		
Arsenic	7440-38-2	mg/kg	0.68	35	--	7.96 JD	9.6	12.9	13	14.2 D	13.2 JD	17.5 D	7.92 D	8.12	14.4 D		
Barium	7440-39-3	mg/kg	1500	15000	--	59.4 D	80.6	164	130	188	183	208 D	62.4 D	435	277 D		
Beryllium	7440-41-7	mg/kg	16	160	--	1.3 U	0.622 J	0.785 J	0.824 J	0.671 J	0.606 J	0.789 JD	0.499 U	0.579 J	1.09 U		
Cadmium	7440-43-9	mg/kg	7.1	71	--	1.3 U	0.242 U	0.237 U	13.7	7.92	6.7	6.54 D	3.09 D	0.226 U	6.65 D		
Calcium	7440-70-2	mg/kg	NP	NP	--	1300 U	1830	3930	7680	3230	3080	3830 D	1460 JD	1400	5990 D		
Chromium	7440-47-3	mg/kg	NP	NP	--	35.4 D	33	36	47.1	96.4	119	52.8 D	36.6 D	25.6	81.1 D		
Cobalt	7440-48-4	mg/kg	2.3	23	--	6.61 JD	9.23	12.4	11.4	17.6	11	19.8 D	3.83 JD	12.5	15.1 D		
Copper	7440-50-8	mg/kg	310	3100	--	16.7 D	7.65	27.6	459	2570	1470	280 D	615 D	31.4	1190 D		
Iron	7439-89-6	mg/kg	5500	55000	--	34900 D	39300	50200	69500	68100	78300	76700 D	22800 D	31800	59800 D		
Lead	7439-92-1	mg/kg	400	400	--	22.9 D	23.5	59.7	317	753	606	222 D	260 D	46.9	525 D		
Magnesium	7439-95-4	mg/kg	NP	NP	--	2550 JD	833 J	928 J	1530	1240 J	2560	1030 JD	499 U	607 J	2290 JD		
Manganese	7439-96-5	mg/kg	180	1800	--	191 D	915	911	933	1800	996	1800 D	348 D	935	1360 D		
Nickel	7440-02-0	mg/kg	150	1500	--	11.7 JD	5.66	8.22	77.5	395 D	379 D	47.8 D	18.4 D	6.49	50.9 D		
Potassium	7440-09-7	mg/kg	NP	NP	--	1300 U	478 J	472 J	636 J	446 J	730 J	552 JD	499 U	425 J	1090 U		
Selenium	7782-49-2	mg/kg	39	390	--	5.21 UM	0.726 U	0.71 U	0.919 J	0.956 J	1.01 J	1.6 U	1.5 U	0.679 U	4.37 UM		
Silver	7440-22-4	mg/kg	39	390	--	1.3 U	0.242 U	0.237 U	0.829 J	2.63	1.57 J	0.532 U	0.499 U	0.226 U	1.09 U		
Sodium	7440-23-5	mg/kg	NP	NP	--	1300 U	242 U	237 U	279 J	262 U	1140 J	532 U	499 U	234 J	1090 U		
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.91 U	0.726 U	0.819 J	0.744 U	1.6 J	1.44 J	1.98 JD	1.5 U	0.679 U	3.28 U		
Vanadium	7440-62-2	mg/kg	39	390	--	76.9 D	74.7	70.1	80	63.8	41.4	75.6 D	25.7 D	61.5	39.9 D		
Zinc	7440-66-6	mg/kg	2300	23000	--	45.8 D	24.2	65.6	1390	7890 D	8160 D	917 D	527 D	40.6	794 D		
PCBs, PCB 8082A																	
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.32 U	0.287 U	0.271 U	2.32 U		
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.32 U	0.287 U	0.271 U	2.32 U		
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.32 U	0.287 U	0.271 U	2.32 U		
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.32 U	0.287 U	0.271 U	2.32 U		
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.32 U	0.287 U	0.271 U	2.32 U		
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	1.32 D	0.287 U	0.271 U	21 D		
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.695 JD	1.17 JD	0.874 JD	11.6 D		
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.32 U	0.287 U	0.271 U	2.32 U		
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.0057 U	0.281 U	0.285 U	0.311 U	0.323 U	0.339 U	0.32 U	0.287 U	0.271 U	2.32 U		
SVOCs, SMS BNA 8270D REG																	
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U		
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U		
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.111 UY	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 UY		
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U		
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U		
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U		
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U		
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U		
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	0.445 U	0.395 U	0.387 U	0.414 U	0.439 U	1.38 U	1.3 U	1.24 U	0.392 U	1.84 U		



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-A2	HIM-A4	HIM-A5	HIM-A6	HIM-A6	HIM-A7	HIM-A7	HIM-A8	HIM-A8	HIM-B1
					Sample ID	HIM-A2-48-09072016-51	HIM-A4-24-09072016-51	HIM-A5-24-09072016-51	HIM-A6-24-09072016-51	HIM-A6-48-09072016-51	HIM-A7-24-09072016-51	HIM-A7-48-09072016-51	HIM-A8-24-09072016-51	HIM-A8-48-09072016-51	HIM-B1-06-09072016-51
					Date	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	24-48	18-24	18-24	18-24	24-48	18-24	24-48	18-24	24-48	0-6
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	1.11 UX	0.987 U	0.967 U	1.04 U	1.1 U	3.45 U	3.25 U	3.09 U	0.98 U	4.6 UX
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	3.04 D	0.098 U	0.46 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	0.445 U	0.395 U	0.387 U	0.414 U	0.439 U	1.38 U	1.3 U	1.24 U	0.392 U	1.84 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	0.445 U	0.395 U	0.387 U	0.414 U	0.439 U	1.38 U	1.3 U	1.24 U	0.392 U	1.84 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	1.11 UX	0.987 U	0.967 U	1.04 U	1.1 U	3.45 U	3.25 U	3.09 U	0.98 U	4.6 UX
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.111 U	0.0987 UY	0.0967 UY	0.104 UY	0.11 UY	0.345 UY	0.325 UY	0.309 UY	0.098 UY	0.46 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	0.445 U	0.395 U	0.387 U	0.414 U	0.439 U	1.38 U	1.3 U	1.24 U	0.392 U	1.84 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	0.445 U	0.395 U	0.387 U	0.414 U	0.439 U	1.38 U	1.3 U	1.24 U	0.392 U	1.84 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.111 U	0.0987 U	0.0967 U	0.313 J	0.288 J	0.485 JD	0.325 U	0.32 JD	0.098 U	0.46 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.571 JD	0.616 JD	0.098 U	0.46 U
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.659 JD	0.435 JD	0.098 U	0.46 U
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.111 U	0.0987 U	0.0967 U	0.125 J	0.115 J	0.424 JD	1.31 D	0.674 JD	0.098 U	0.547 J
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.373 JD	0.718 JD	0.56 JD	0.098 U	0.46 U
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.464 JD	0.309 U	0.098 U	0.46 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	0.111 U	0.239 J	0.236 J	0.683	0.503	0.899 JD	0.92 JD	0.768 JD	0.237 J	0.46 U
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.352 JD	0.309 U	0.098 U	0.46 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.876 JD	0.675 JD	0.098 U	0.46 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.111 U	0.0987 UY	0.0967 UY	0.104 UY	0.11 UY	0.345 UY	0.325 UY	0.802 JDY	0.098 UY	0.46 U
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.111 UX	0.0987 U	0.247 J	0.104 U	0.323 J	0.345 U	0.325 U	0.309 U	0.098 U	0.46 UX
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.111 U	0.0987 U	0.0967 U	0.137 J	0.124 J	0.345 U	0.749 JD	0.813 JD	0.098 U	0.556 J



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-A2	HIM-A4	HIM-A5	HIM-A6	HIM-A6	HIM-A7	HIM-A7	HIM-A8	HIM-A8	HIM-B1
					Sample ID	HIM-A2-48-09072016-51	HIM-A4-24-09072016-51	HIM-A5-24-09072016-51	HIM-A6-24-09072016-51	HIM-A6-48-09072016-51	HIM-A7-24-09072016-51	HIM-A7-48-09072016-51	HIM-A8-24-09072016-51	HIM-A8-48-09072016-51	HIM-B1-06-09072016-51
					Date	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	24-48	18-24	18-24	18-24	24-48	18-24	24-48	18-24	24-48	0-6
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.111 U	0.0987 UY	0.0967 UY	0.104 UY	0.11 UY	0.345 UY	0.325 UY	0.309 UY	0.098 UY	0.46 U
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.682 JD	0.322 JD	0.098 U	0.46 U
Isophorone	78-59-1	mg/kg	570	13000	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	1.66 D	0.098 U	0.46 U
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.436 JD	0.098 U	0.46 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	0.445 U	0.395 U	0.387 U	0.414 U	0.439 U	1.38 U	1.3 U	1.24 U	0.392 U	1.84 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.111 U	0.0987 U	0.0967 U	0.11 J	0.11 U	0.702 JD	0.395 JD	2.11 D	0.098 U	0.46 U
Phenol	108-95-2	mg/kg	1900	19000	--	0.111 U	0.0987 U	0.0967 U	0.104 U	0.11 U	0.345 U	0.325 U	0.309 U	0.098 U	0.46 U
Pyrene	129-00-0	mg/kg	180	1800	--	0.111 U	0.0987 U	0.0967 U	0.129 J	0.116 J	0.465 JD	0.985 JD	1.05 JD	0.098 U	0.464 J
WC PERCENT SOLIDS_2540B															
% Solids	NA	%	NP	NP	--										

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-B1	HIM-B1	HIM-B1	HIM-B2	HIM-B2	HIM-B2	HIM-B4	HIM-B4	HIM-B5	HIM-B5
					Sample ID	HIM-B1-06-09072016-52	HIM-B1-18-09072016-51	HIM-B1-24-09072016-51	HIM-B2-18-09072016-51	HIM-B2-24-09072016-51	HIM-B2-48-09072016-51	HIM-B4-24-09072016-51	HIM-B4-24-09072016-52	HIM-B5-24-09082016-51	HIM-B5-24-09082016-52
					Date	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/8/2016	9/8/2016
					Depth (inches)	0-6	06-18	18-24	06-18	18-24	24-48	18-24	18-24	18-24	18-24
					Type	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate					
					--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B															
Mercury	7439-97-6	mg/kg	1.1	11	--	0.477	0.223	0.0252 J	0.564	0.692	0.0322 J	0.0375 J	0.0552	0.0555	0.0482
Metals, ICP 6010C Total															
Aluminum	7429-90-5	mg/kg	7700	77000	--	9790 D	12200 D	30600 D	15400 D	17000 D	13300 D	20800	26400	11800	11300
Antimony	7440-36-0	mg/kg	3.1	31	--	15.6 D	5.54 U	5.94 U	5.57 U	5.87 U	6.05 U	1.6 J	2.41 J	1.16 U	1.15 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	18.6 D	12.8 D	8.05 JD	16.4 D	12.2 D	11.6 JD	8.8	9.55	17.6	15.5
Barium	7440-39-3	mg/kg	1500	15000	--	256 D	129 D	59 D	386 D	168 D	88.5 D	123	168	165	294
Beryllium	7440-41-7	mg/kg	16	160	--	1.1 U	1.11 U	1.19 U	1.11 U	1.17 U	1.21 U	0.613 J	0.709 J	0.871 J	0.873 J
Cadmium	7440-43-9	mg/kg	7.1	71	--	6.81 D	1.11 U	1.19 U	3.46 JD	3.98 JD	1.21 U	0.256 U	0.259 U	0.247 J	0.391 J
Calcium	7440-70-2	mg/kg	NP	NP	--	3280 JD	1880 JD	1970 JD	3620 JD	2330 JD	1210 U	1960	2710	1770	1810
Chromium	7440-47-3	mg/kg	NP	NP	--	72.4 D	45.8 D	43.2 D	63 D	267 D	35.4 D	33.2	39.8	55.8	52.3 D
Cobalt	7440-48-4	mg/kg	2.3	23	--	13.1 JD	9.45 JD	5.94 U	24.7 D	10.9 JD	8.02 JD	5.44	6.26	20.2	34.5
Copper	7440-50-8	mg/kg	310	3100	--	923 D	397 D	20.6 D	884 D	1540 D	17.6 D	24.5	22.7	31.2	34.3
Iron	7439-89-6	mg/kg	5500	55000	--	76500 D	42800 D	40200 D	78400 D	61600 D	45900 D	34000	49900	64700	61700 D
Lead	7439-92-1	mg/kg	400	400	--	815 D	184 D	26.1 D	946 D	4410 D	31.9 D	137	298	63.2	73.4 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	1100 U	1110 U	2170 JD	1110 U	1170 JD	1210 U	1450	1930	723 J	697 J
Manganese	7439-96-5	mg/kg	180	1800	--	1430 D	859 D	228 D	3040 D	491 D	993 D	450	593	2200	3800 D
Nickel	7440-02-0	mg/kg	150	1500	--	37.9 D	9.63 JD	11.1 JD	38.6 D	24.3 D	6.03 JD	10	10.4	12	10.6
Potassium	7440-09-7	mg/kg	NP	NP	--	1100 U	1110 U	1190 U	1110 U	1170 U	1210 U	750 J	964 J	369 J	342 J
Selenium	7782-49-2	mg/kg	39	390	--	3.31 U	3.33 U	3.56 U	3.34 U	3.52 U	3.63 U	0.767 U	0.778 U	0.694 U	1.39 U
Silver	7440-22-4	mg/kg	39	390	--	1.1 U	1.11 U	2.37 UM	2.23 UM	1.17 U	2.42 UM	0.256 U	0.259 U	0.231 U	0.462 U
Sodium	7440-23-5	mg/kg	NP	NP	--	1100 U	1110 U	1190 U	1110 U	1170 U	1210 U	607 J	514 J	231 U	231 U
Thallium	7440-28-0	mg/kg	0.078	0.78	--	4.89 JD	3.33 U	3.56 U	3.34 U	3.52 U	3.63 U	0.767 U	0.785 J	2.17	3.41 JD
Vanadium	7440-62-2	mg/kg	39	390	--	45.2 D	75.5 D	77.3 D	81.6 D	73.6 D	79.2 D	75.3	83.5	113	107 D
Zinc	7440-66-6	mg/kg	2300	23000	--	3170 D	157 D	41.9 D	721 D	516 D	46.6 D	141	219	125	141 D
PCBs, PCB 8082A															
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.0915 U	0.0479 U	0.00518 U	0.00481 U	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.0915 U	0.0479 U	0.00518 U	0.00481 U	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.0915 U	0.0479 U	0.00518 U	0.00481 U	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.0915 U	0.0479 U	0.00518 U	0.00481 U	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.0915 U	0.0479 U	0.00518 U	0.00481 U	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.968 D	0.182 JDP	0.00518 U	0.0979	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	2.72 D	0.302 D	0.00518 U	0.21	0.812 JD	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.0915 U	0.0479 U	0.00518 U	0.00481 U	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.0915 U	0.0479 U	0.00518 U	0.00481 U	0.26 U	0.0102 U	0.321 U	0.306 U	0.285 U	0.258 U
SVOCs, SMS BNA 8270D REG															
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.46 UY	0.0955 UY	0.103 UY	0.48 UY		0.101 UY	0.111 U	0.11 U	0.0924 U	0.0947 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	1.84 U	0.382 U	0.412 U	1.92 U		0.403 U	0.442 U	0.441 U	0.369 U	0.379 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-B1	HIM-B1	HIM-B1	HIM-B2	HIM-B2	HIM-B2	HIM-B4	HIM-B4	HIM-B5	HIM-B5
					Sample ID	HIM-B1-06-09072016-52	HIM-B1-18-09072016-51	HIM-B1-24-09072016-51	HIM-B2-18-09072016-51	HIM-B2-24-09072016-51	HIM-B2-48-09072016-51	HIM-B4-24-09072016-51	HIM-B4-24-09072016-52	HIM-B5-24-09082016-51	HIM-B5-24-09082016-52
					Date	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/8/2016	9/8/2016
					Depth (inches)	0-6	06-18	18-24	06-18	18-24	24-48	18-24	18-24	18-24	18-24
					Type	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate					
					--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	4.6 UX	0.955 UX	1.03 UX	4.8 UX		1.01 UX	1.11 U	1.1 U	0.924 U	0.947 U
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	1.84 U	0.382 U	0.412 U	1.92 U		0.403 U	0.442 U	0.441 U	0.369 U	0.379 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	1.84 U	0.382 U	0.412 U	1.92 U		0.403 U	0.442 U	0.441 U	0.369 U	0.379 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	4.6 UX	0.955 UX	1.03 UX	4.8 UX		1.01 UX	1.11 U	1.1 U	0.924 U	0.947 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 UY	0.11 UY	0.0924 UY	0.0947 UY
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	1.84 U	0.382 U	0.412 U	1.92 U	0.59 U	0.403 U	0.442 U	0.441 U	0.369 U	0.379 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	1.84 U	0.382 U	0.412 U	1.92 U		0.403 U	0.442 U	0.441 U	0.369 U	0.379 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.141 J
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.114 J
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.138 J	0.125 J	0.0924 U	0.156 J
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U	0.148 U	0.101 U	0.127 J	0.11 U	0.0924 U	0.0947 U
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.27 J	0.265 J	0.224 J	0.23 J
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.46 U	0.738	0.103 U	5.69	10.5 D	0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.147 J
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 UY	0.11 UY	0.0924 UY	0.0947 UY
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.46 UX	0.0955 UX	0.103 UX	0.48 UX		0.101 UX	0.292 J	0.285 J	0.236 J	0.0947 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.335 J



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-B1	HIM-B1	HIM-B1	HIM-B2	HIM-B2	HIM-B2	HIM-B4	HIM-B4	HIM-B5	HIM-B5
					Sample ID	HIM-B1-06-09072016-52	HIM-B1-18-09072016-51	HIM-B1-24-09072016-51	HIM-B2-18-09072016-51	HIM-B2-24-09072016-51	HIM-B2-48-09072016-51	HIM-B4-24-09072016-51	HIM-B4-24-09072016-52	HIM-B5-24-09082016-51	HIM-B5-24-09082016-52
					Date	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016	9/8/2016	9/8/2016
					Depth (inches)	0-6	06-18	18-24	06-18	18-24	24-48	18-24	18-24	18-24	18-24
					Type	Field Duplicate	Field Sample	Field Duplicate	Field Sample	Field Duplicate					
					--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 UY	0.11 UY	0.0924 UY	0.0947 UY
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Isophorone	78-59-1	mg/kg	570	13000	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	1.84 U	0.382 U	0.412 U	1.92 U		0.403 U	0.442 U	0.441 U	0.369 U	0.379 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.286 J
Phenol	108-95-2	mg/kg	1900	19000	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.0947 U
Pyrene	129-00-0	mg/kg	180	1800	--	0.46 U	0.0955 U	0.103 U	0.48 U		0.101 U	0.111 U	0.11 U	0.0924 U	0.28 J
WC PERCENT SOLIDS_2540B															
% Solids	NA	%	NP	NP	--										

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-B6	HIM-B6	HIM-B7	HIM-B7	HIM-B8	HIM-B8	HIM-C2	HIM-C2	HIM-C3	HIM-C3
					Sample ID	HIM-B6-24-09082016-51	HIM-B6-48-09082016-51	HIM-B7-24-09082016-51	HIM-B7-48-09082016-51	HIM-B8-24-09082016-51	HIM-B8-48-09082016-51	HIM-C2-18-09072016-51	HIM-C2-24-09072016-51	HIM-C3-06-09072016-51	HIM-C3-18-09072016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	18-24	24-48	18-24	24-48	18-24	24-48	06-18	18-24	0-6	06-18
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B															
Mercury	7439-97-6	mg/kg	1.1	11	--	0.853	0.152	0.479	0.118	0.126	0.554	0.283 N	0.157	0.264	0.105
Metals, ICP 6010C Total															
Aluminum	7429-90-5	mg/kg	7700	77000	--	49400	94700	54500 D	27600 N	58700 D	60300 D	11300 N	12500 D	28800	24700
Antimony	7440-36-0	mg/kg	3.1	31	--	6.96	9.02	12.4 D	2.34 JN	6.73 U	14.8 D	2.2 JN	6.24 U	1.19 U	1.38 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	12.8	17.9 D	3.56 U	0.815 U	4.04 U	3.77 U	19.3	6 JD	7.81	11
Barium	7440-39-3	mg/kg	1500	15000	--	186	146	546 D	207	158 D	385 D	244 N	300 D	81.4	169
Beryllium	7440-41-7	mg/kg	16	160	--	0.778 J	0.568 J	1.19 U	0.595 J	1.35 U	1.26 U	0.701 J	1.25 U	0.733 J	0.832 J
Cadmium	7440-43-9	mg/kg	7.1	71	--	7.89	9.53	12 DXQ	4.43 NXQ	7.82 DXQ	22.2 DXQ	3.12	2.78 JD	0.239 U	0.419 J
Calcium	7440-70-2	mg/kg	NP	NP	--	4110	2140	5420 JD	2700 N	1720 JD	2830 JD	5670 N	4000 JD	1810	9230
Chromium	7440-47-3	mg/kg	NP	NP	--	62.4	95	87.7 DY	57.3 NY	46.3 DY	69.1 DY	47.1 N*	22.5 D	35.6	38.6
Cobalt	7440-48-4	mg/kg	2.3	23	--	18	17.1	19.1 D	14.3	21.5 D	14.5 JD	12.2	16.7 D	4.48	5.62
Copper	7440-50-8	mg/kg	310	3100	--	997	3750 D	1830 D	374 N*	1010 D	1360 D	480 N*	604 D	77.7	100
Iron	7439-89-6	mg/kg	5500	55000	--	57000	66900	83900 D	72400 N*	43200 D	95100 D	49000 N*	24800 D	34200	43200
Lead	7439-92-1	mg/kg	400	400	--	630	945	1020 D	324 N*	501 D	1100 D	299 N	140 D	40.5	150
Magnesium	7439-95-4	mg/kg	NP	NP	--	1470	1490	2530 JD	1860 N	2350 JD	1530 JD	853 JN	1250 U	2170	2200
Manganese	7439-96-5	mg/kg	180	1800	--	2100	1590	2060 DY	1170 NY*	863 DY	1430 DY	1380 N	1560 D	252	490
Nickel	7440-02-0	mg/kg	150	1500	--	128	289 D	244 D	77.2 N	61.4 D	73.3 D	21.4 N*	16.8 D	11.9	14.3
Potassium	7440-09-7	mg/kg	NP	NP	--	542 J	429 J	1190 U	772 JN	1350 U	1260 U	472 J	1250 U	942 J	929 J
Selenium	7782-49-2	mg/kg	39	390	--	0.791 U	1.77 J	3.56 UX	1.09 UXM	4.04 UX	3.77 UX	0.704 U	5 UM	0.761 J	0.828 U
Silver	7440-22-4	mg/kg	39	390	--	1.44 J	3.29	5.94 UYM	1.63 UYM	8.07 UYM	7.54 UMY	0.329 J	1.25 U	0.239 U	0.276 U
Sodium	7440-23-5	mg/kg	NP	NP	--	488 J	253 U	1190 UX	1210 JNX	1640 JDJ	1260 UX	235 U	1250 U	484 J	556 J
Thallium	7440-28-0	mg/kg	0.078	0.78	--	2.43	1.88 J	4.24 JD	1.14 J	4.04 U	3.77 U	1.27 J	3.75 U	0.716 U	0.828 U
Vanadium	7440-62-2	mg/kg	39	390	--	58.4	49.3	62.6 D	63.3	70.7 D	63.5 D	64.6	40.6 D	76.4	83.7
Zinc	7440-66-6	mg/kg	2300	23000	--	3840 D	7860 D	3240 D	1830 N*	1450 D	2670 D	508 N	188 D	70.4	145
PCBs, PCB 8082A															
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.321 U	0.3 U	0.285 U	0.309 UN	0.326 U	0.3 U	0.00492 U	0.0053 U	0.288 U	0.334 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.321 U	0.3 U	0.285 U	0.309 U	0.326 U	0.3 U	0.00492 U	0.0053 U	0.288 U	0.334 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.321 U	0.3 U	0.285 U	0.309 U	0.326 U	0.3 U	0.00492 U	0.0053 U	0.288 U	0.334 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.321 U	0.3 U	0.285 U	1.03 JD	0.326 U	0.3 U	0.00492 U	0.0053 U	0.288 U	0.334 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.321 U	0.3 U	0.285 U	0.309 U	0.326 U	0.3 U	0.00492 U	0.0053 U	0.288 U	0.334 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	1.02 JD	0.3 U	0.813 JD	0.895 JD	0.326 U	1.02 JD	0.236	0.138	0.83 JD	0.334 U
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.61 JD	0.3 U	0.651 JD	0.411 JDNP	0.326 U	0.878 JD	0.255 N	0.261	1.68 D	0.334 U
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.321 U	0.3 U	0.285 U	0.309 U	0.326 U	0.3 U	0.00492 U	0.0053 U	0.288 U	0.334 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.321 U	0.3 U	0.285 U	0.309 U	0.326 U	0.3 U	0.00492 U	0.0053 U	0.288 U	0.334 U
SVOCs, SMS BNA 8270D REG															
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 UY	0.106 UY	0.0976 U	0.113 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.107 UQ	0.102 UQ	0.481 UQ	0.561 UQ	0.553 UQ	0.525 UQ	0.49 U	0.106 U	0.0976 U	0.113 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	0.429 U	0.406 U	1.92 U	2.24 U	2.21 U	2.1 U	1.96 U	0.424 U	0.39 U	0.453 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-B6	HIM-B6	HIM-B7	HIM-B7	HIM-B8	HIM-B8	HIM-C2	HIM-C2	HIM-C3	HIM-C3
					Sample ID	HIM-B6-24-09082016-51	HIM-B6-48-09082016-51	HIM-B7-24-09082016-51	HIM-B7-48-09082016-51	HIM-B8-24-09082016-51	HIM-B8-48-09082016-51	HIM-C2-18-09072016-51	HIM-C2-24-09072016-51	HIM-C3-06-09072016-51	HIM-C3-18-09072016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	18-24	24-48	18-24	24-48	18-24	24-48	06-18	18-24	0-6	06-18
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	1.07 U	1.02 U	4.81 U	5.61 UN	5.53 U	5.25 U	4.9 UNX	1.06 UX	0.976 U	1.13 U
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	0.429 U	0.406 U	1.92 U	2.24 U	2.21 U	2.1 U	1.96 U	0.424 U	0.39 U	0.453 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	0.429 U	0.406 U	1.92 U	2.24 U	2.21 U	2.1 U	1.96 U	0.424 U	0.39 U	0.453 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	1.07 U	1.02 U	4.81 U	5.61 UN	5.53 U	5.25 U	4.9 UNX	1.06 UX	0.976 U	1.13 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.107 UY	0.102 UY	0.481 UY	0.561 UY	0.553 UY	0.525 UY	0.49 U	0.106 U	0.0976 UY	0.113 UY
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	0.429 U	0.406 U	1.92 U	2.24 U	2.21 U	2.1 U	1.96 U	0.424 U	0.39 U	0.453 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	0.429 U	0.406 U	1.92 U	2.24 U	2.21 U	2.1 U	1.96 U	0.424 U	0.39 U	0.453 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.176 J	0.102 U	0.481 U	0.561 U	0.669 J	0.525 U	0.49 U	0.106 U	0.25 J	0.544
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.152 J	0.102 U	0.481 U	0.561 U	0.596 J	0.525 U	0.49 U	0.106 U	0.155 J	0.49
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.259 J	0.102 U	0.481 U	0.561 U	0.884 J	0.605 J	0.49 U	0.106 U	0.488	0.695
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.136 J	0.102 U	0.481 U	0.561 U	0.579 J	0.525 U	0.49 U	0.106 U	0.147 J	0.396 J
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.123 J	0.238 J
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	1.08	0.312 J	1.65 J	1.4 J	3.78	1.55 J	0.49 U	0.106 U	0.261 J	0.534
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.107 U	0.102 U	0.481 U	0.561 UN	3.27	0.525 U	0.49 UN	0.106 U	0.0976 U	0.113 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.185 J	0.102 U	0.481 U	0.561 U	0.767 J	0.525 U	0.49 U	0.106 U	0.481	0.546
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 UY	0.113 UY
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.287 JB	0.269 JB	0.481 U	0.561 U	0.553 U	0.525 U	0.49 UX	0.106 UX	0.0976 U	0.113 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.334 J	0.102 U	0.481 U	0.561 U	0.924 J	0.594 J	0.49 U	0.106 U	0.313 J	1.2



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-B6	HIM-B6	HIM-B7	HIM-B7	HIM-B8	HIM-B8	HIM-C2	HIM-C2	HIM-C3	HIM-C3
					Sample ID	HIM-B6-24-09082016-51	HIM-B6-48-09082016-51	HIM-B7-24-09082016-51	HIM-B7-48-09082016-51	HIM-B8-24-09082016-51	HIM-B8-48-09082016-51	HIM-C2-18-09072016-51	HIM-C2-24-09072016-51	HIM-C3-06-09072016-51	HIM-C3-18-09072016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/7/2016	9/7/2016	9/7/2016	9/7/2016
					Depth (inches)	18-24	24-48	18-24	24-48	18-24	24-48	06-18	18-24	0-6	06-18
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.107 UY	0.102 UY	0.481 UY	0.561 UNY	0.553 UY	0.525 UY	0.49 UN	0.106 U	0.0976 UY	0.113 UY
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.128 J	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.128 J	0.385 J
Isophorone	78-59-1	mg/kg	570	13000	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	0.429 U	0.406 U	1.92 U	2.24 U	2.21 U	2.1 U	1.96 U	0.424 U	0.39 U	0.453 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.211 J	0.102 U	0.481 U	0.561 U	0.648 J	0.542 J	0.49 U	0.126 J	0.171 J	0.395 J
Phenol	108-95-2	mg/kg	1900	19000	--	0.107 U	0.102 U	0.481 U	0.561 U	0.553 U	0.525 U	0.49 U	0.106 U	0.0976 U	0.113 U
Pyrene	129-00-0	mg/kg	180	1800	--	0.287 J	0.102 U	0.481 U	0.561 U	0.954 J	0.608 J	0.49 U	0.106 U	0.297 J	1.12
WC PERCENT SOLIDS_2540B															
% Solids	NA	%	NP	NP	--										

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-C3	HIM-C4	HIM-C5	HIM-C5	HIM-C6	HIM-C6	HIM-C7	HIM-C7	HIM-C7	HIM-C8	
					Sample ID	HIM-C3-24-09072016-51	HIM-C4-24-09072016-51	HIM-C5-24-09082016-51	HIM-C5-48-09082016-51	HIM-C6-24-09082016-51	HIM-C6-48-09082016-51	HIM-C7-24-09082016-51	HIM-C7-24-09082016-52	HIM-C7-48-09082016-51	HIM-C8-24-09082016-51	
					Date	9/7/2016	9/7/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	18-24	18-24	18-24	24-48	18-24	24-48	18-24	18-24	24-48	18-24	18-24
					Type	Field Sample	Field Duplicate	Field Sample	Field Sample							
					--	--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B																
Mercury	7439-97-6	mg/kg	1.1	11	--	0.0947	0.0523	0.0799	0.0706	0.521	0.974	0.493	0.199	0.0939	0.787	
Metals, ICP 6010C Total																
Aluminum	7429-90-5	mg/kg	7700	77000	--	33100	23600	28700 D	38800 D	11400 D	14200 D	20100 D	10900 D	13400 N	8360 D	
Antimony	7440-36-0	mg/kg	3.1	31	--	1.34 U	1.3 U	6.17 U	6.7 U	5.97 U	5.92 U	20 D	5.9 U	1.52 JN	9.46 JD	
Arsenic	7440-38-2	mg/kg	0.68	35	--	8.47	10.6	3.7 U	4.02 U	3.58 U	3.55 U	3.53 U	4.64 JD	5.09	3.7 U	
Barium	7440-39-3	mg/kg	1500	15000	--	64.7	77.4	185 D	56.5 D	108 D	58.1 D	416 D	341 D	132 N*	341 D	
Beryllium	7440-41-7	mg/kg	16	160	--	0.972 J	0.642 J	1.23 U	1.34 U	1.19 U	1.18 U	1.18 U	1.18 U	0.936 J	1.23 U	
Cadmium	7440-43-9	mg/kg	7.1	71	--	0.268 U	0.26 U	1.23 UXQ	1.34 UXQ	1.19 UXQ	1.18 UXQ	10.6 DXQ	2.1 JDXQ	0.397 JNXQ	13.6 DXQ	
Calcium	7440-70-2	mg/kg	NP	NP	--	1600	1340	1960 JD	2000 JD	3100 JD	1180 U	3320 JD	1660 JD	912 JN*	2930 JD	
Chromium	7440-47-3	mg/kg	NP	NP	--	40.9	40.6	38.7 DY	37.1 DY	24.5 DY	50 DY	53.3 DY	35.2 DY	43.2 NY	25 DY	
Cobalt	7440-48-4	mg/kg	2.3	23	--	4.5	3.7	14.8 JD	6.7 U	11.7 JD	6.8 JD	10.5 JD	5.9 U	8.53	9.67 JD	
Copper	7440-50-8	mg/kg	310	3100	--	56.5	18	85.3 D	46.2 D	83.8 D	44.9 D	649 D	262 D	36.5 N	265 D	
Iron	7439-89-6	mg/kg	5500	55000	--	37000	42900	52500 D	49700 D	36500 D	51900 D	86000 D	64900 D	69000 N	65400 D	
Lead	7439-92-1	mg/kg	400	400	--	69.9	27	95.4 D	118 D	112 D	57.8 D	1040 D	428 D	108 N*	509 D	
Magnesium	7439-95-4	mg/kg	NP	NP	--	2600	1620	1810 JD	2690 JD	1190 U	1180 U	1180 U	1180 U	667 JN	1230 U	
Manganese	7439-96-5	mg/kg	180	1800	--	192	435	1260 DY	237 DY	898 DY	415 DY	750 DY	249 DY	712 NY*	850 DY	
Nickel	7440-02-0	mg/kg	150	1500	--	15.5	8.96	12.6 D	16.2 D	12.2 D	16.4 D	61.4 D	24.3 D	14.8	37.8 D	
Potassium	7440-09-7	mg/kg	NP	NP	--	1010 J	842 J	1230 U	1340 U	1190 U	1180 U	1180 U	1180 U	474 JN	1230 U	
Selenium	7782-49-2	mg/kg	39	390	--	0.803 U	1.41 J	3.7 UX	5.36 UXM	3.58 UX	3.55 UX	7.06 UXM	3.54 UX	0.738 UX	3.7 UX	
Silver	7440-22-4	mg/kg	39	390	--	0.268 U	0.26 U	9.87 UYM	10.7 UMY	9.55 UYM	9.47 UMY	8.23 UYM	9.43 UYM	1.72 UYM	8.64 UMY	
Sodium	7440-23-5	mg/kg	NP	NP	--	715 J	460 J	1230 UX	1340 UX	1190 UX	1180 UX	1180 UX	1180 UX	884 JX	1230 UX	
Thallium	7440-28-0	mg/kg	0.078	0.78	--	0.803 U	0.779 U	3.7 U	4.02 U	3.58 U	3.55 U	3.53 U	3.54 U	0.738 U	3.7 U	
Vanadium	7440-62-2	mg/kg	39	390	--	76.5	86.6	92.9 D	95.7 D	54.5 D	82.9 D	25.3 DY	61.5 DY	101 NY	39 D	
Zinc	7440-66-6	mg/kg	2300	23000	--	89.7	38.3	250 D	165 D	344 D	143 D	3250 D	1280 D	504 N*	3400 D	
PCBs, PCB 8082A																
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 U	0.961 JD	0.284 U	0.28 U	0.311 UN	0.292 U	
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 U	0.286 U	0.284 U	0.28 U	0.311 U	0.292 U	
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 U	0.286 U	0.284 U	0.28 U	0.311 U	0.292 U	
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 U	0.286 U	0.284 U	0.28 U	0.311 U	0.292 U	
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 U	0.286 U	0.284 U	0.28 U	0.311 U	0.292 U	
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.339 U	0.32 U	0.726 JD	0.319 U	0.288 U	0.286 U	0.449 JD	1.02 JD	0.311 U	0.292 U	
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 UXQ	0.286 UXQ	0.284 U	0.577 JDXQ	0.311 UN	0.292 U	
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 U	0.286 U	0.284 U	0.28 U	0.311 U	0.292 U	
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.339 U	0.32 U	0.285 U	0.319 U	0.288 U	0.286 U	0.284 U	0.28 U	0.311 U	0.292 U	
SVOCs, SMS BNA 8270D REG																
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.112 U	0.112 U	0.101 UQ	0.107 UQ	0.486 UQ	0.0991 UQ	0.466 UQ	0.488 UQ	0.0996 UNQ	0.971 UQ	
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	0.448 U	0.449 U	0.403 U	0.43 U	1.94 U	0.396 U	1.86 U	1.95 U	0.398 UN	3.88 U	



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-C3	HIM-C4	HIM-C5	HIM-C5	HIM-C6	HIM-C6	HIM-C7	HIM-C7	HIM-C7	HIM-C8	
					Sample ID	HIM-C3-24-09072016-51	HIM-C4-24-09072016-51	HIM-C5-24-09082016-51	HIM-C5-48-09082016-51	HIM-C6-24-09082016-51	HIM-C6-48-09082016-51	HIM-C7-24-09082016-51	HIM-C7-24-09082016-52	HIM-C7-48-09082016-51	HIM-C8-24-09082016-51	
					Date	9/7/2016	9/7/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	18-24	18-24	18-24	24-48	18-24	24-48	18-24	18-24	24-48	18-24	
					Type	Field Sample	Field Duplicate	Field Sample	Field Sample							
					--	--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	1.12 U	1.12 U	1.01 U	1.07 U	4.86 U	0.991 U	4.66 U	4.88 U	0.996 U	9.71 U	
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.119 J	0.522 J	0.52 J	0.0996 UN	1.13 J	
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
2-Nitroaniline	88-74-4	mg/kg	63	630	--	0.448 U	0.449 U	0.403 U	0.43 U	1.94 U	0.396 U	1.86 U	1.95 U	0.398 U	3.88 U	
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	0.448 U	0.449 U	0.403 U	0.43 U	1.94 U	0.396 U	1.86 U	1.95 U	0.398 U	3.88 U	
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	1.12 U	1.12 U	1.01 U	1.07 U	4.86 U	0.991 U	4.66 U	4.88 U	0.996 U	9.71 U	
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.112 UY	0.112 UY	0.101 UY	0.107 UY	0.486 UY	0.0991 UY	0.466 UY	0.488 UY	0.0996 UNY	0.971 UY	
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
4-Nitroaniline	100-01-6	mg/kg	25	250	--	0.448 U	0.449 U	0.403 U	0.43 U	1.94 U	0.396 U	1.86 U	1.95 U	0.398 U	3.88 U	
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	0.448 U	0.449 U	0.403 U	0.43 U	1.94 U	0.396 U	1.86 U	1.95 U	0.398 U	3.88 U	
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Acetophenone	98-86-2	mg/kg	780	7800	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Anthracene	120-12-7	mg/kg	1800	18000	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.117 J	0.466 U	0.488 U	0.0996 U	0.971 U	
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.167 J	0.517 J	0.529 J	0.0996 U	0.977 J	
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	0.3 J	0.289 J	0.245 J	0.273 J	0.486 U	0.243 J	1.16 J	1.21 J	0.238 J	2.32 J	
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Carbazole	86-74-8	mg/kg	NP	NP	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Chrysene	218-01-9	mg/kg	16	1600	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.135 J	0.466 U	0.488 U	0.0996 U	0.971 U	
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.112 UY	0.112 UY	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.325 J	0.338 J	0.101 U	0.279 JB	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.195 J	0.575 J	0.565 J	0.0996 U	1.19 J	



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-C3	HIM-C4	HIM-C5	HIM-C5	HIM-C6	HIM-C6	HIM-C7	HIM-C7	HIM-C7	HIM-C8	
					Sample ID	HIM-C3-24-09072016-51	HIM-C4-24-09072016-51	HIM-C5-24-09082016-51	HIM-C5-48-09082016-51	HIM-C6-24-09082016-51	HIM-C6-48-09082016-51	HIM-C7-24-09082016-51	HIM-C7-24-09082016-52	HIM-C7-48-09082016-51	HIM-C8-24-09082016-51	
					Date	9/7/2016	9/7/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	18-24	18-24	18-24	24-48	18-24	24-48	18-24	18-24	24-48	18-24	
					Type	Field Sample	Field Duplicate	Field Sample	Field Sample							
					--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.112 UY	0.112 UY	0.101 UY	0.107 UY	0.486 UY	0.0991 UY	0.466 UY	0.488 UY	0.0996 UNY	0.971 UY	
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 U	0.971 U	
Isophorone	78-59-1	mg/kg	570	13000	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Pentachlorophenol	87-86-5	mg/kg	1	100	--	0.448 U	0.449 U	0.403 U	0.43 U	1.94 U	0.396 U	1.86 U	1.95 U	0.398 U	3.88 U	
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.214 J	0.698 J	0.722 J	0.0996 U	1.74 J	
Phenol	108-95-2	mg/kg	1900	19000	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.0991 U	0.466 U	0.488 U	0.0996 UN	0.971 U	
Pyrene	129-00-0	mg/kg	180	1800	--	0.112 U	0.112 U	0.101 U	0.107 U	0.486 U	0.159 J	0.567 J	0.583 J	0.0996 U	1.52 J	
WC PERCENT SOLIDS_2540B																
% Solids	NA	%	NP	NP	--											

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-C8	HIM-D2	HIM-D2	HIM-D2	HIM-D3	HIM-D3	HIM-D3	HIM-D4	HIM-D4	HIM-D4
					Sample ID	HIM-C8-48-09082016-51	HIM-D2-06-09082016-51	HIM-D2-18-09082016-51	HIM-D2-24-09082016-51	HIM-D3-06-09082016-51	HIM-D3-18-09082016-51	HIM-D3-24-09082016-51	HIM-D4-06-09082016-51	HIM-D4-18-09082016-51	HIM-D4-24-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	24-48	0-6	06-18	18-24	0-6	06-18	18-24	0-6	06-18	18-24
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B															
Mercury	7439-97-6	mg/kg	1.1	11	--	1.09	1.39	0.235	0.206	1.83 D	1.41	1.27	0.78	7.34 D	0.286
Metals, ICP 6010C Total															
Aluminum	7429-90-5	mg/kg	7700	77000	--	10400 D	23800 D	12600 D	11900 D	17300 D	11600 D	19200 D	13300 D	10000 D	39900 D
Antimony	7440-36-0	mg/kg	3.1	31	--	5.88 U	90.7 D	11.3 JD	5.58 U	6.87 JD	7.1 JD	6.43 U	5.49 U	5.51 U	6.49 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	3.82 JD	4.3 JD	5.06 JD	4.83 JD	3.24 U	3.23 U	3.86 U	3.3 U	3.31 U	3.89 U
Barium	7440-39-3	mg/kg	1500	15000	--	136 D	576 D	286 D	208 D	420 D	190 D	402 D	192 D	250 D	75.1 D
Beryllium	7440-41-7	mg/kg	16	160	--	1.18 U	1.1 U	1.15 U	1.12 U	1.08 U	1.08 U	1.29 U	1.1 U	1.1 U	1.3 U
Cadmium	7440-43-9	mg/kg	7.1	71	--	1.18 UXQ	12.7 DXQ	3.52 JDXQ	1.12 UXQ	11.4 DXQ	6.12 DXQ	5.23 JDXQ	4.47 JDXQ	1.66 JDXQ	1.3 UXQ
Calcium	7440-70-2	mg/kg	NP	NP	--	2020 JD	8630 D	5280 JD	3220 JD	7740 D	3460 JD	5310 JD	2810 JD	2710 JD	1300 U
Chromium	7440-47-3	mg/kg	NP	NP	--	21 DY	55.2 DY	43.9 DY	27.7 DY	72.6 DY	43.1 DY	67.2 DY	60.3 DY	34.5 DY	38.3 DY
Cobalt	7440-48-4	mg/kg	2.3	23	--	11.2 JD	10.6 JD	15.3 D	18.6 D	11.5 JD	8.27 JD	8.87 JD	12.6 JD	16.8 D	6.49 U
Copper	7440-50-8	mg/kg	310	3100	--	62.1 D	1260 D	292 D	104 D	1660 D	1360 D	719 D	688 D	217 D	28.7 D
Iron	7439-89-6	mg/kg	5500	55000	--	46600 D	55700 D	46800 D	51400 D	89000 D	43100 D	63500 D	121000 D	46700 D	47600 D
Lead	7439-92-1	mg/kg	400	400	--	195 D	837 D	428 D	164 D	732 D	364 D	477 D	418 D	232 D	59.9 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	1180 U	1730 JD	1150 U	1120 U	1550 JD	1080 U	1290 U	1100 U	1100 U	2990 JD
Manganese	7439-96-5	mg/kg	180	1800	--	803 DY	913 DY	1640 DY	2040 DY	950 DY	601 DY	703 DY	1480 DY	1240 DY	257 DY
Nickel	7440-02-0	mg/kg	150	1500	--	10.1 JD	98.3 D	30.1 D	18.8 D	111 D	39.8 D	97 D	35.7 D	24.1 D	15.6 D
Potassium	7440-09-7	mg/kg	NP	NP	--	1180 U	1100 U	1150 U	1120 U	1080 U	1080 U	1290 U	1100 U	1100 U	1300 U
Selenium	7782-49-2	mg/kg	39	390	--	5.88 UXM	3.31 UX	3.45 UX	3.35 UX	4.32 UXM	4.3 UXM	3.86 UX	3.3 UX	4.41 UXM	3.89 UX
Silver	7440-22-4	mg/kg	39	390	--	9.4 UYM	7.72 UMY	9.19 UYM	8.92 UYM	7.55 UYM	8.6 UYM	10.3 UMY	7.69 UYM	8.82 UYM	10.4 UMY
Sodium	7440-23-5	mg/kg	NP	NP	--	1180 UX	1100 UX	1150 UX	1120 UX	1080 UX	1080 UX	1290 UX	1100 UX	1100 UX	1300 UX
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.53 U	3.31 U	4.14 JD	3.83 JD	3.24 U	3.23 U	3.86 U	3.77 JD	3.31 U	3.89 U
Vanadium	7440-62-2	mg/kg	39	390	--	62.3 D	30.5 DY	45.9 DY	57.2 DY	37.6 DY	43.5 DY	56.7 DY	43.8 DY	45 DY	87.4 DY
Zinc	7440-66-6	mg/kg	2300	23000	--	661 D	3020 D	832 D	294 D	1810 D	814 D	799 D	814 D	424 D	85.4 D
PCBs, PCB 8082A															
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.289 U	0.267 U	0.286 U	0.24 U	0.262 U	0.272 U	0.306 U	0.248 U	0.271 U	0.321 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.289 U	0.267 U	0.286 U	0.24 U	0.262 U	0.272 U	0.306 U	0.248 U	0.271 U	0.321 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.289 U	0.267 U	0.286 U	0.24 U	0.262 U	0.272 U	0.306 U	0.248 U	0.271 U	0.321 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.289 U	0.267 U	0.286 U	0.24 U	0.262 U	0.272 U	0.306 U	0.248 U	0.271 U	0.321 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.289 U	0.267 U	0.286 U	0.24 U	0.262 U	0.272 U	0.306 U	0.248 U	0.271 U	0.321 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.289 U	3.95 D	0.623 JD	0.24 U	1.91 D	0.597 JD	1.57 DP	0.248 U	0.271 U	0.321 U
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.289 UXQ	4.69 D	0.647 JD	0.24 U	2.25 D	1.01 JD	2.93 D	0.775 JDXQ	0.271 UXQ	0.321 UXQ
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.289 U	0.267 U	0.286 U	0.24 U	0.262 U	0.272 U	0.306 U	0.248 U	0.271 U	0.321 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.289 U	0.267 U	0.286 U	0.24 U	0.262 U	0.272 U	0.306 U	0.248 U	0.271 U	0.321 U
SVOCs, SMS BNA 8270D REG															
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.498 UQ	0.463 UQ	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	1.99 U	1.85 U	1.89 U	1.87 U	0.538 U	0.363 U	0.426 U	0.367 U	0.372 U	0.425 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-C8	HIM-D2	HIM-D2	HIM-D2	HIM-D3	HIM-D3	HIM-D3	HIM-D4	HIM-D4	HIM-D4
					Sample ID	HIM-C8-48-09082016-51	HIM-D2-06-09082016-51	HIM-D2-18-09082016-51	HIM-D2-24-09082016-51	HIM-D3-06-09082016-51	HIM-D3-18-09082016-51	HIM-D3-24-09082016-51	HIM-D4-06-09082016-51	HIM-D4-18-09082016-51	HIM-D4-24-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	24-48	0-6	06-18	18-24	0-6	06-18	18-24	0-6	06-18	18-24
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	4.98 U	4.63 U	4.73 UX	4.68 UX	1.34 UX	0.909 UX	1.07 UX	0.918 UX	0.93 UX	1.06 UX
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.696 J	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.166 J
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	1.99 U	1.85 U	1.89 U	1.87 U	0.538 U	0.363 U	0.426 U	0.367 U	0.372 U	0.425 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	1.99 U	1.85 U	1.89 U	1.87 U	0.538 U	0.363 U	0.426 U	0.367 U	0.372 U	0.425 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	4.98 U	4.63 U	4.73 U	4.68 U	1.34 U	0.909 U	1.07 U	0.918 U	0.93 U	1.06 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.498 UY	0.463 UY	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	1.99 U	1.85 U	1.89 U	1.87 U	0.538 U	0.363 U	0.426 U	0.367 U	0.372 U	0.425 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	1.99 U	1.85 U	1.89 U	1.87 U	0.538 U	0.363 U	0.426 U	0.367 U	0.372 U	0.425 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.208 J
Acetophenone	98-86-2	mg/kg	780	7800	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.498 U	0.463 U	0.473 U	0.468 U	0.169 J	0.0909 U	0.107 U	0.0918 U	0.093 U	0.121 J
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.695 J	0.517 J	0.473 U	0.468 U	0.963	0.0976 J	0.351 J	0.136 J	0.178 J	0.9
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.553 J	0.667 J	0.473 U	0.468 U	0.835	0.0909 U	0.269 J	0.148 J	0.258 J	1.04
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	1.03 J	1.2 J	0.473 U	0.468 U	2.09	0.186 J	0.683	0.303 J	0.417	1.78
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.506 J	1.09 J	0.473 U	0.468 U	0.974	0.106 J	0.295 J	1.09	0.779	0.853
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.498 U	0.463 U	0.473 U	0.468 U	0.686	0.0909 U	0.213 J	0.0918 U	0.133 J	0.658
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	1.53 J	2.11	0.473 U	0.468 U	0.207 J	0.236 J	0.259 J	0.147 J	0.093 U	0.106 U
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.239 J
Chrysene	218-01-9	mg/kg	16	1600	--	0.854 J	0.716 J	0.473 U	0.468 U	1.66	0.172 J	0.782	0.186 J	0.207 J	1.54
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.498 U	0.463 U	0.473 U	0.468 U	0.177 J	0.0909 U	0.107 U	0.0918 U	0.093 U	0.196 J
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.268 J
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	1.15 J	0.863 J	0.473 U	0.468 U	1.35	0.13 J	0.426	0.26 J	0.231 J	3.58



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-C8	HIM-D2	HIM-D2	HIM-D2	HIM-D3	HIM-D3	HIM-D3	HIM-D4	HIM-D4	HIM-D4
					Sample ID	HIM-C8-48-09082016-51	HIM-D2-06-09082016-51	HIM-D2-18-09082016-51	HIM-D2-24-09082016-51	HIM-D3-06-09082016-51	HIM-D3-18-09082016-51	HIM-D3-24-09082016-51	HIM-D4-06-09082016-51	HIM-D4-18-09082016-51	HIM-D4-24-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	24-48	0-6	06-18	18-24	0-6	06-18	18-24	0-6	06-18	18-24
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.498 UY	0.463 UY	0.473 UY	0.468 UY	0.134 UY	0.0909 UY	0.107 UY	0.0918 UY	0.093 UY	0.106 UY
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.498 U	0.886 J	0.473 U	0.468 U	0.931	0.0958 J	0.275 J	0.467	0.521	0.986
Isophorone	78-59-1	mg/kg	570	13000	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.127 J
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	1.99 U	1.85 U	1.89 U	1.87 U	0.538 U	0.363 U	0.426 U	0.367 U	0.372 U	0.425 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	1.35 J	0.473 J	0.473 U	0.468 U	0.261 J	0.0969 J	0.162 J	0.136 J	0.136 J	3.15
Phenol	108-95-2	mg/kg	1900	19000	--	0.498 U	0.463 U	0.473 U	0.468 U	0.134 U	0.0909 U	0.107 U	0.0918 U	0.093 U	0.106 U
Pyrene	129-00-0	mg/kg	180	1800	--	1.25 J	0.87 J	0.473 U	0.468 U	1.56	0.138 J	0.441	0.248 J	0.24 J	2.68
WC PERCENT SOLIDS_2540B															
% Solids	NA	%	NP	NP	--										

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-D5	HIM-D5	HIM-D6	HIM-D6	HIM-D7	HIM-D7	HIM-D8	HIM-D8	HIM-D8	HIM-E2
					Sample ID	HIM-D5-24-09082016-51	HIM-D5-48-09082016-51	HIM-D6-24-09082016-51	HIM-D6-48-09082016-51	HIM-D7-24-09082016-51	HIM-D7-48-09082016-51	HIM-D8-06-09082016-51	HIM-D8-18-09082016-51	HIM-D8-24-09082016-51	HIM-E2-06-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	18-24	24-48	18-24	24-48	18-24	24-48	0-6	06-18	18-24	0-6
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B															
Mercury	7439-97-6	mg/kg	1.1	11	--	1.9 D	0.146	10.3 DN	0.301	1.14	0.173	0.299	0.271	0.117	0.086
Metals, ICP 6010C Total															
Aluminum	7429-90-5	mg/kg	7700	77000	--	29700 D	36000 D	44300 DN	11000 D	12900 D	16200 D	7840 D	7030 D	8470 D	10900 D
Antimony	7440-36-0	mg/kg	3.1	31	--	5.53 U	6.86 U	36.1 DN	5.72 U	8.61 JD	5.91 U	238 D	7.56 JD	5.89 U	5.71 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	3.32 U	5.18 JD	28.8 D	6.66 JD	3.55 U	3.55 U	10.7 D	3.51 JD	3.54 U	8.19 JD
Barium	7440-39-3	mg/kg	1500	15000	--	174 D	209 D	578 DN*	237 D	391 D	94.8 D	316 D	338 D	165 D	170 D
Beryllium	7440-41-7	mg/kg	16	160	--	1.11 U	1.37 U	0.837 J	1.14 U	1.18 U	1.18 U	1.07 U	1.08 U	1.18 U	1.14 U
Cadmium	7440-43-9	mg/kg	7.1	71	--	4.48 JDXQ	1.84 JDXQ	31.5 DNQ	4.53 JDXQ	17 DXQ	1.18 UXQ	9.55 DXQ	6.19 DXQ	2.81 JDXQ	1.38 JD
Calcium	7440-70-2	mg/kg	NP	NP	--	5010 JD	2750 JD	9190 N*	5890 D	3790 JD	1180 U	6110 D	5070 JD	3070 JD	17500 D
Chromium	7440-47-3	mg/kg	NP	NP	--	75.2 DY	345 DY	281 DN*	85.4 DY	80.1 DY	27.4 DY	28.4 DY	27.2 DY	23.5 DY	39.4 D
Cobalt	7440-48-4	mg/kg	2.3	23	--	12.9 JD	26.4 D	25.6 JD	12.7 JD	10.8 JD	5.91 U	10.7 JD	11.3 JD	12 JD	9.91 JD
Copper	7440-50-8	mg/kg	310	3100	--	757 D	772 D	4320 DN	223 D	966 D	71.4 D	981 D	230 D	151 D	310 D
Iron	7439-89-6	mg/kg	5500	55000	--	57000 D	70000 D	187000 DN	57300 D	99400 D	50200 D	83700 D	66800 D	66700 D	32700 D
Lead	7439-92-1	mg/kg	400	400	--	2460 D	719 D	2630 DN	571 D	865 D	99.7 D	3180 D	520 D	268 D	275 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	2590 JD	3140 JD	2810 JDN	1140 U	1180 U	1180 U	1070 U	1080 U	1180 U	1140 U
Manganese	7439-96-5	mg/kg	180	1800	--	943 DY	1290 DY	2460 DN*	1430 DY	830 DY	344 DY	734 DY	551 DY	1340 DY	962 D
Nickel	7440-02-0	mg/kg	150	1500	--	110 D	203 D	634 DN*	35.5 D	102 D	12.1 D	56.1 D	44.8 D	22.4 D	27.4 D
Potassium	7440-09-7	mg/kg	NP	NP	--	1110 U	1370 U	601 JN	1140 U	1180 U	1180 U	1070 U	1080 U	1180 U	1140 U
Selenium	7782-49-2	mg/kg	39	390	--	3.32 UX	4.12 UX	7.17 U	5.72 UXM	5.92 UXM	4.73 UXM	3.2 UX	3.25 UX	3.54 UX	3.42 U
Silver	7440-22-4	mg/kg	39	390	--	8.85 UYM	11 UYM	6.32 JDN	9.15 UYM	8.29 UYM	9.46 UMY	7.46 UYM	8.68 UMY	9.43 UYM	1.14 U
Sodium	7440-23-5	mg/kg	NP	NP	--	1110 UX	1370 UX	518 JNX	1140 UX	1180 UX	1180 UX	2080 JDX	1080 UX	1180 UX	1140 U
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.32 U	4.12 U	7.17 U	3.49 JD	3.55 U	3.55 U	3.2 U	3.25 U	3.54 U	3.42 U
Vanadium	7440-62-2	mg/kg	39	390	--	74 DY	77.2 DY	34.5 D	58.5 DY	53 DY	74.2 DY	24 DY	43.8 DY	58.3 D	24.1 D
Zinc	7440-66-6	mg/kg	2300	23000	--	1180 D	646 D	15200 DN	1020 D	2820 D	386 D	2050 D	1790 D	697 D	293 D
PCBs, PCB 8082A															
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.272 U	0.353 U	45.6 DN	0.258 U	0.274 U	0.295 U	0.257 U	0.269 U	0.27 U	0.255 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.272 U	0.353 U	0.281 U	0.258 U	0.274 U	0.295 U	0.257 U	0.269 U	0.27 U	0.255 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.272 U	0.353 U	0.281 U	0.258 U	0.274 U	0.295 U	0.257 U	0.269 U	0.27 U	0.255 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.272 U	0.353 U	0.281 U	0.258 U	0.274 U	0.295 U	0.257 U	0.269 U	0.27 U	0.255 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.272 U	0.353 U	0.281 U	0.258 U	0.274 U	0.295 U	0.257 U	0.269 U	0.27 U	0.255 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	2.55 D	2.67 D	6.28 D	0.258 U	2.14 D	1.23 D	0.257 U	0.544 JD	0.618 JD	0.255 U
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	4.61 D	1.74 D	5.86 DN	0.258 UXQ	1.34 DXQ	0.63 JDXQ	0.54 JD	0.269 UXQ	0.27 UXQ	0.255 U
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.272 U	0.353 U	0.281 U	0.258 U	0.274 U	0.295 U	0.257 U	0.269 U	0.27 U	0.255 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.272 U	0.353 U	0.281 U	0.258 U	0.274 U	0.295 U	0.257 U	0.269 U	0.27 U	0.255 U
SVOCs, SMS BNA 8270D REG															
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 UQ	0.501 UQ	2.22 UQ	2.24 UQ	0.489 UQ	0.455 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	0.38 U	0.472 U	2.03 U	0.38 U	2.02 U	2 U	8.87 U	8.97 U	1.95 U	1.82 U

**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-D5	HIM-D5	HIM-D6	HIM-D6	HIM-D7	HIM-D7	HIM-D8	HIM-D8	HIM-D8	HIM-E2
					Sample ID	HIM-D5-24-09082016-51	HIM-D5-48-09082016-51	HIM-D6-24-09082016-51	HIM-D6-48-09082016-51	HIM-D7-24-09082016-51	HIM-D7-48-09082016-51	HIM-D8-06-09082016-51	HIM-D8-18-09082016-51	HIM-D8-24-09082016-51	HIM-E2-06-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	18-24	24-48	18-24	24-48	18-24	24-48	0-6	06-18	18-24	0-6
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	0.95 UX	1.18 UX	5.07 UNX	0.951 UX	5.06 U	5.01 U	22.2 U	22.4 U	4.89 U	4.55 U
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.095 U	0.118 U	0.507 U	0.248 J	0.506 U	0.501 U	2.22 U	2.24 U	0.553 J	0.455 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	0.38 U	0.472 U	2.03 U	0.38 U	2.02 U	2 U	8.87 U	8.97 U	1.95 U	1.82 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	0.38 U	0.472 U	2.03 U	0.38 U	2.02 U	2 U	8.87 U	8.97 U	1.95 U	1.82 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	0.95 U	1.18 U	5.07 UN	0.951 U	5.06 U	5.01 U	22.2 U	22.4 U	4.89 U	4.55 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	0.38 U	0.472 U	2.03 U	0.38 U	2.02 U	2 U	8.87 U	8.97 U	1.95 U	1.82 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	0.38 U	0.472 U	2.03 U	0.38 U	2.02 U	2 U	8.87 U	8.97 U	1.95 U	1.82 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.095 U	0.118 U	0.507 UN	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.095 U	0.118 U	0.507 UN	0.0953 J	0.506 UQ	0.501 UQ	2.22 UQ	2.24 UQ	0.489 UQ	0.455 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 UQ	0.501 UQ	2.22 UQ	2.24 UQ	0.489 UQ	0.455 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.19 J	0.26 J	1.77 JN	0.171 J	1.18 J	0.755 J	2.22 U	2.24 U	0.489 U	0.908 J
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.174 J	0.21 J	1.37 JN	0.171 J	0.985 J	0.501 U	2.22 U	2.24 U	0.489 U	0.779 J
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.414	0.508	3.6 N	0.387	1.98 J	0.914 J	3.43 JD	3.48 JD	0.489 U	0.852 J
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.269 J	0.347 J	1.67 JN	0.26 J	0.583 J	0.501 U	2.55 JD	2.24 U	0.489 U	0.542 J
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.118 J	0.142 J	0.964 JN	0.111 J	0.661 J	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	0.095 U	0.118 U	1.01 J	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	1.14 JB
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.095 U	0.118 U	0.507 UN	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.28 J	0.427 J	3.39 N	0.276 J	1.27 J	0.826 J	2.22 U	2.24 U	0.489 U	1.03 J
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.095 U	0.118 U	0.507 UN	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.095 U	0.118 U	0.507 U	0.125 J	0.506 UQ	0.501 UQ	2.22 UQ	2.24 UQ	0.489 UQ	0.455 U
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.095 U	0.118 U	0.507 UN	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.383	0.465 J	2.86 N	0.251 J	1.04 JQ	1.42 JQ	2.22 UQ	2.24 UQ	0.489 UQ	1.45 J



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-D5	HIM-D5	HIM-D6	HIM-D6	HIM-D7	HIM-D7	HIM-D8	HIM-D8	HIM-D8	HIM-E2
					Sample ID	HIM-D5-24-09082016-51	HIM-D5-48-09082016-51	HIM-D6-24-09082016-51	HIM-D6-48-09082016-51	HIM-D7-24-09082016-51	HIM-D7-48-09082016-51	HIM-D8-06-09082016-51	HIM-D8-18-09082016-51	HIM-D8-24-09082016-51	HIM-E2-06-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	18-24	24-48	18-24	24-48	18-24	24-48	0-6	06-18	18-24	0-6
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.095 UY	0.118 UY	0.507 UNY	0.0951 UY	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 UY
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.237 J	0.277 J	1.65 JN	0.246 J	0.758 J	0.501 U	2.3 JD	2.32 JD	0.489 U	0.486 J
Isophorone	78-59-1	mg/kg	570	13000	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.095 U	0.118 U	0.507 UN	0.201 J	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 UQ	0.501 UQ	2.22 UQ	2.24 UQ	0.489 UQ	0.455 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	0.38 U	0.472 U	2.03 U	0.38 U	2.02 U	2 U	8.87 U	8.97 U	1.95 U	1.82 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.234 J	0.33 J	1.92 JN	0.36 J	0.593 J	1.5 J	2.22 U	2.24 U	0.489 U	1.65 J
Phenol	108-95-2	mg/kg	1900	19000	--	0.095 U	0.118 U	0.507 U	0.0951 U	0.506 U	0.501 U	2.22 U	2.24 U	0.489 U	0.455 U
Pyrene	129-00-0	mg/kg	180	1800	--	0.355 J	0.413 J	2.73 N	0.24 J	0.99 J	1.15 J	2.22 U	2.24 U	0.489 U	2.16
WC_PERCENT_SOLIDS_2540B															
% Solids	NA	%	NP	NP	--										88

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-E3	HIM-E3	HIM-E3	HIM-E4	HIM-E4	HIM-E4	HIM-E5	HIM-E5	HIM-E5	HIM-E6
					Sample ID	HIM-E3-06-09082016-51	HIM-E3-18-09082016-51	HIM-E3-24-09082016-51	HIM-E4-06-09082016-51	HIM-E4-18-09082016-51	HIM-E4-24-09082016-51	HIM-E5-06-09082016-51	HIM-E5-18-09082016-51	HIM-E5-24-09082016-51	HIM-E6-06-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	0-6	06-18	18-24	0-6	06-18	18-24	0-6	06-18	18-24	0-6
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B															
Mercury	7439-97-6	mg/kg	1.1	11	--	1.91	0.0595	0.0405 J	1.31	0.063	0.0488	9.29 D	1.54	0.0911 N	5.12 D
Metals, ICP 6010C Total															
Aluminum	7429-90-5	mg/kg	7700	77000	--	12800 D	31000 D	32500 D	14000 D	28400 D	27700 D	24700 D	17800 D	32800 N	35500 D
Antimony	7440-36-0	mg/kg	3.1	31	--	22.1 D	6.63 U	6.58 U	6.34 JD	6.64 U	2.62 U	10.2 D	29.7 D	1.24 UN	27.1 D
Arsenic	7440-38-2	mg/kg	0.68	35	--	32.3 D	9.49 JD	6.33 JD	16.4 D	7.51 JD	16.9 D	14.5 D	15.1 D	12.5	8.69 JD
Barium	7440-39-3	mg/kg	1500	15000	--	336 D	75 D	90.1 D	306 D	54.1 D	115 D	251 D	346 D	84	472 D
Beryllium	7440-41-7	mg/kg	16	160	--	1.23 U	1.33 U	1.32 U	1.07 U	1.33 U	1.38 JD	0.512 JD	0.421 U	0.976 J	1.16 U
Cadmium	7440-43-9	mg/kg	7.1	71	--	12.7 D	1.33 U	1.32 U	30.2 DXQ	2.65 UXQM	71.8 D	17.3 D	16.4 D	0.267 J	41.7 DXQ
Calcium	7440-70-2	mg/kg	NP	NP	--	16800 D	2360 JD	1630 JD	11400 D	1710 JD	6070 D	2860 D	4130 D	1830 N*	7110 D
Chromium	7440-47-3	mg/kg	NP	NP	--	125 D	47.4 D	36.6 D	79.1 DY	56.1 DY	77.1 D	89.8 D	59.8 D	57.3 N	215 DY
Cobalt	7440-48-4	mg/kg	2.3	23	--	13.5 JD	6.63 U	7.02 JD	12.1 JD	7.92 JD	37.9 D	10.4 D	7.76 D	6.18	18 D
Copper	7440-50-8	mg/kg	310	3100	--	4050 D	215 D	17.5 D	1470 D	33.2 D	148 D	1590 D	1590 D	68.5 N	2850 D
Iron	7439-89-6	mg/kg	5500	55000	--	133000 D	58700 D	33200 D	66100 D	58000 D	69100 D	59500 D	47600 D	44700 N	104000 D
Lead	7439-92-1	mg/kg	400	400	--	1310 D	48.9 D	25.6 D	715 D	71.4 D	105 D	2020 D	3190 D	102 N*	2130 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	1230 U	1890 JD	2200 JD	1070 U	1770 JD	1600 JD	1030 JD	964 JD	2190 N	1740 JD
Manganese	7439-96-5	mg/kg	180	1800	--	1180 D	256 D	198 D	776 DY	317 DY	1170 D	1010 D	606 D	218 N*	1460 DY
Nickel	7440-02-0	mg/kg	150	1500	--	121 D	11.3 JD	12.3 JD	98.7 D	12.6 JD	21.7 D	117 D	92.4 D	19.5	248 D
Potassium	7440-09-7	mg/kg	NP	NP	--	1230 U	1330 U	1320 U	1070 U	1330 U	1160 JD	425 JD	421 U	1110 JN	1160 U
Selenium	7782-49-2	mg/kg	39	390	--	4.32 JD	3.98 U	3.95 U	4.28 UXM	6.64 UXM	1.57 U	1.26 U	1.26 U	0.747 U	4.62 JD
Silver	7440-22-4	mg/kg	39	390	--	1.38 JD	1.33 U	1.32 U	7.5 UMY	10.6 UYM	0.524 U	1.6 JD	1.34 JD	0.249 U	6.98 UYM
Sodium	7440-23-5	mg/kg	NP	NP	--	1230 U	1330 U	1320 U	1070 UX	1330 UX	888 JD	420 U	630 JD	394 JN	1160 UX
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.7 U	3.98 U	3.95 U	3.21 U	3.98 U	1.57 U	1.26 U	1.26 U	0.747 UN	3.49 U
Vanadium	7440-62-2	mg/kg	39	390	--	25.9 D	82.8 D	67.6 D	29.3 D	104 D	110 D	55.4 D	25.6 D	103	43.6 D
Zinc	7440-66-6	mg/kg	2300	23000	--	2440 D	77 D	59.4 D	1970 D	81.9 D	202 D	4140 D	2340 D	152 N	7840 D
PCBs, PCB 8082A															
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.301 U	0.314 U	0.311 U	0.25 U	0.328 U	0.328 U	13.2 U	6.2 U	0.304 U	0.268 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.301 U	0.314 U	0.311 U	0.25 U	0.328 U	0.328 U	13.2 U	6.2 U	0.304 U	0.268 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.301 U	0.314 U	0.311 U	0.25 U	0.328 U	0.328 U	13.2 U	6.2 U	0.304 U	0.268 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.301 U	0.314 U	0.311 U	0.25 U	0.328 U	0.328 U	13.2 U	6.2 U	6.14 D	5.29 D
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.301 U	0.314 U	0.311 U	0.25 U	0.328 U	0.328 U	13.2 U	6.2 U	0.304 U	0.268 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.689 JD	0.314 U	0.311 U	6.37 D	0.919 JD	0.808 JD	245 DP	202 D	2.51 D	4.8 D
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.927 JBD	0.314 U	0.311 U	21.6 D	2.2 D	2.11 D	1640 DPXQ	728 D	2.18 D	6.19 D
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.301 U	0.314 U	0.311 U	0.25 U	0.328 U	0.328 U	13.2 U	6.2 U	0.304 U	0.268 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.301 U	0.314 U	0.311 U	0.25 U	0.328 U	0.328 U	13.2 U	6.2 U	0.304 U	0.268 U
SVOCs, SMS BNA 8270D REG															
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.511 U	0.111 U	0.112 U	0.445 UQ	0.112 UQ	0.112 UQ	0.453 UQ	0.445 UQ	0.103 UQ	2.41 UQ
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	2.04 U	0.443 U	0.449 U	1.78 U	0.448 U	0.446 U	1.81 U	1.78 U	0.411 U	9.63 U



Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-E3	HIM-E3	HIM-E3	HIM-E4	HIM-E4	HIM-E4	HIM-E5	HIM-E5	HIM-E5	HIM-E6
					Sample ID	HIM-E3-06-09082016-51	HIM-E3-18-09082016-51	HIM-E3-24-09082016-51	HIM-E4-06-09082016-51	HIM-E4-18-09082016-51	HIM-E4-24-09082016-51	HIM-E5-06-09082016-51	HIM-E5-18-09082016-51	HIM-E5-24-09082016-51	HIM-E6-06-09082016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016
					Depth (inches)	0-6	06-18	18-24	0-6	06-18	18-24	0-6	06-18	18-24	0-6
					Type	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	5.11 U	1.11 U	1.12 U	4.45 U	1.12 U	1.12 U	4.53 U	4.45 U	1.03 U	24.1 U
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.511 U	0.131 J	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	2.04 U	0.443 U	0.449 U	1.78 U	0.448 U	0.446 U	1.81 U	1.78 U	0.411 U	9.63 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	2.04 U	0.443 U	0.449 U	1.78 U	0.448 U	0.446 U	1.81 U	1.78 U	0.411 U	9.63 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	5.11 U	1.11 U	1.12 U	4.45 U	1.12 U	1.12 U	4.53 U	4.45 U	1.03 U	24.1 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	2.04 U	0.443 U	0.449 U	1.78 U	0.448 U	0.446 U	1.81 U	1.78 U	0.411 U	9.63 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	2.04 U	0.443 U	0.449 U	1.78 U	0.448 U	0.446 U	1.81 U	1.78 U	0.411 U	9.63 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.511 U	0.111 U	0.112 U	0.445 UQ	0.112 UQ	0.112 UQ	0.453 UQ	0.445 UQ	0.103 UQ	2.41 UQ
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.511 U	0.111 U	0.112 U	0.445 UQ	0.112 UQ	0.112 UQ	0.453 UQ	0.445 UQ	0.103 UQ	2.41 UQ
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.511 U	0.138 J	0.112 U	0.445 U	0.112 U	0.112 U	0.776 J	0.613 J	0.103 U	2.41 U
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.511 U	0.133 J	0.112 U	0.445 U	0.112 U	0.112 U	0.752 J	0.623 J	0.103 U	2.41 U
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.631 J	0.175 J	0.112 U	0.445 U	0.112 U	0.112 U	1.22 J	0.906 J	0.103 U	2.41 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.511 U	0.137 J	0.112 U	0.445 U	0.112 U	0.112 U	0.794 J	0.673 J	0.103 U	2.41 U
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	2.83 B	0.337 JB	0.264 JB	0.445 U	0.112 U	0.402 J	0.453 U	0.445 U	0.103 U	2.41 U
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.577 J	0.111 U	0.112 U	1.38 J	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.511 U	0.171 J	0.112 U	0.445 U	0.112 U	0.112 U	0.892 J	0.628 J	0.103 U	2.41 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.511 U	0.111 U	0.112 U	0.445 UQ	0.112 UQ	0.112 UQ	0.453 UQ	0.445 UQ	0.103 UQ	2.41 UQ
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.55 J	0.111 U	0.112 U	0.657 J	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.592 J	0.171 J	0.112 U	0.445 UQ	0.112 UQ	0.112 UQ	1.28 JQ	0.964 JQ	0.103 UQ	2.41 UQ



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-E3	HIM-E3	HIM-E3	HIM-E4	HIM-E4	HIM-E4	HIM-E5	HIM-E5	HIM-E5	HIM-E6			
					Sample ID	HIM-E3-06-09082016-51	HIM-E3-18-09082016-51	HIM-E3-24-09082016-51	HIM-E4-06-09082016-51	HIM-E4-18-09082016-51	HIM-E4-24-09082016-51	HIM-E5-06-09082016-51	HIM-E5-18-09082016-51	HIM-E5-24-09082016-51	HIM-E6-06-09082016-51			
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016			
					Depth (inches)	0-6	06-18	18-24	0-6	06-18	18-24	0-6	06-18	18-24	0-6	06-18	18-24	0-6
					Type	Field Sample	Field Sample	Field Sample	Field Sample									
					--	--	--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.511 UY	0.111 UY	0.112 UY	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.511 U	0.125 J	0.112 U	0.445 U	0.112 U	0.112 U	0.863 J	0.612 J	0.103 U	2.41 U			
Isophorone	78-59-1	mg/kg	570	13000	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.511 U	0.111 U	0.112 U	0.445 UQ	0.112 UQ	0.112 UQ	0.453 UQ	0.445 UQ	0.103 UQ	2.41 UQ			
Pentachlorophenol	87-86-5	mg/kg	1	100	--	2.04 U	0.443 U	0.449 U	1.78 U	0.448 U	0.446 U	1.81 U	1.78 U	0.411 U	9.63 U			
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.511 U	0.172 J	0.112 U	0.445 U	0.112 U	0.203 J	0.661 J	0.604 J	0.103 U	2.41 U			
Phenol	108-95-2	mg/kg	1900	19000	--	0.511 U	0.111 U	0.112 U	0.445 U	0.112 U	0.112 U	0.453 U	0.445 U	0.103 U	2.41 U			
Pyrene	129-00-0	mg/kg	180	1800	--	0.578 J	0.275 J	0.112 U	0.445 U	0.112 U	0.112 U	1.26 J	0.97 J	0.103 U	2.41 U			
WC_PERCENT_SOLIDS_2540B																		
% Solids	NA	%	NP	NP	--	81	74	74										

Notes
mg/kg - milligrams per kilogram
NP - Not Published
Sample Qualifiers
* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.
D - Diluted sample
J - The reported result is estimated.
M - Indicates that the sample matrix interfered with the quantitation of the analyte.
N - The MS/MSD accuracy and/or precision are outside criteria.
P - The associated numerical value is an estimated quantity
Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.
U - not detected above detection limit shown.
X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.
Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-E6	HIM-E6	HIM-E7	HIM-E7	HIM-F3	HIM-F3	HIM-F3	HIM-F7	HIM-F7	HIM-F7
					Sample ID	HIM-E6-18-09082016-51	HIM-E6-24-09082016-51	HIM-E7-24-09082016-51	HIM-E7-48-09082016-51	HIM-F3-06-09082016-51	HIM-F3-18-09082016-51	HIM-F3-24-09082016-51	HIM-F7-18-09092016-51	HIM-F7-18-09092016-52	HIM-F7-24-09092016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/9/2016	9/9/2016	9/9/2016
					Depth (inches)	06-18	18-24	18-24	24-48	0-6	06-18	18-24	06-18	06-18	18-24
					Type	Field Sample	Field Duplicate	Field Sample							
					--	--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B															
Mercury	7439-97-6	mg/kg	1.1	11	--	1.64	0.0931	2.67 D	1.1	2.42 D	0.763	1.11	0.49	0.358	0.0822
Metals, ICP 6010C Total															
Aluminum	7429-90-5	mg/kg	7700	77000	--	17200 D	11800 D	27200 D	25700 D	5030 D	8430 D	10600 D	16800 D	12900 D	32000 D
Antimony	7440-36-0	mg/kg	3.1	31	--	15.2 D	5.71 U	49.7 D	20.8 D	7.59 JD	5.6 U	5.57 U	5.43 U	5.57 U	5.73 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	15.8 D	4.44 JD	3.35 U	8 JD	11.3 D	8.05 JD	19 D	12 D	12.9 D	12.5 D
Barium	7440-39-3	mg/kg	1500	15000	--	636 D	235 D	426 D	373 D	1290 D	203 D	659 D	976 D	1060 D	152 D
Beryllium	7440-41-7	mg/kg	16	160	--	1.12 U	1.14 U	1.12 U	1.13 U	1.06 U	1.12 U	1.11 U	1.09 U	1.11 U	1.15 U
Cadmium	7440-43-9	mg/kg	7.1	71	--	20.4 DXQ	2.91 JDXQ	60.2 DXQ	28.6 DXQ	2 JD	1.12 U	2.13 JD	3.6 JD	1.76 JD	6.05 D
Calcium	7440-70-2	mg/kg	NP	NP	--	5220 JD	3340 JD	8850 D	9400 D	2860 JD	3080 JD	3280 JD	2290 JD	3130 JD	2000 JD
Chromium	7440-47-3	mg/kg	NP	NP	--	183 DY	29.9 DY	109 DY	89.2 DY	23.3 D	32.1 D	63 D	54.4 D	55.6 D	62.7 D
Cobalt	7440-48-4	mg/kg	2.3	23	--	28.5 D	15.9 D	16.1 D	12 JD	5.28 U	15.2 D	26 D	11.3 JD	17.9 D	5.73 U
Copper	7440-50-8	mg/kg	310	3100	--	1320 D	288 D	6550 D	1540 D	424 D	167 D	164 D	416 D	232 D	477 D
Iron	7439-89-6	mg/kg	5500	55000	--	97800 D	40900 D	117000 D	84400 D	29700 D	26300 D	56000 D	40500 D	43500 D	39200 D
Lead	7439-92-1	mg/kg	400	400	--	1840 D	792 D	3020 D	1750 D	244 D	204 D	351 D	7790 D	241 D	315 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	1420 JD	1140 U	1800 JD	1310 JD	1060 U	1120 U	1110 U	1090 U	1110 U	1840 JD
Manganese	7439-96-5	mg/kg	180	1800	--	2070 DY	1730 DY	1090 DY	848 DY	513 D	966 D	4150 D	1130 D	2270 D	350 D
Nickel	7440-02-0	mg/kg	150	1500	--	112 D	12.7 D	374 D	189 D	21.6 D	19.4 D	53 D	58.5 D	39.9 D	114 D
Potassium	7440-09-7	mg/kg	NP	NP	--	1120 U	1140 U	1120 U	1130 U	1060 U	1120 U	1110 U	1090 U	1110 U	1150 U
Selenium	7782-49-2	mg/kg	39	390	--	3.36 UX	4.56 UXM	3.35 UX	3.4 UX	3.17 U	3.36 U	3.34 U	3.26 U	3.34 U	3.44 U
Silver	7440-22-4	mg/kg	39	390	--	7.84 UYM	9.13 UYM	5.59 UYM	7.93 UYM	1.06 U	1.12 U	1.11 U	1.09 U	1.11 U	1.15 U
Sodium	7440-23-5	mg/kg	NP	NP	--	1120 UX	1140 UX	1120 UX	1130 UX	1060 U	1120 U	1110 U	1090 U	1110 U	1150 U
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.52 JD	3.42 U	3.35 U	3.4 U	3.17 U	3.36 U	3.34 U	3.26 U	3.34 U	3.44 U
Vanadium	7440-62-2	mg/kg	39	390	--	111 D	64.9 D	23.3 D	27.3 D	13.3 D	37.2 D	81.8 D	65.4 D	70.1 D	89.8 D
Zinc	7440-66-6	mg/kg	2300	23000	--	4570 D	259 D	16000 D	8760 D	339 D	230 D	399 D	2310 D	1440 D	3190 D
PCBs, PCB 8082A															
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.271 U	0.256 U	12.7 U	3.55 U	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	0.248 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.271 U	0.256 U	12.7 U	3.55 U	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	0.248 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.271 U	0.256 U	12.7 U	3.55 U	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	0.248 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	1.67 D	0.256 U	12.7 U	3.55 U	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	0.248 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.271 U	0.256 U	12.7 U	3.55 U	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	0.248 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	2.48 D	0.256 U	214 DP	46 D	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	1.02 D
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	1.91 D	0.256 UXQ	1400 DPXQ	165 D	0.847 JBD	0.279 U	0.857 JD	0.329 JBDXQ	0.3 JBDXQ	0.98 JBD
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.271 U	0.256 U	12.7 U	3.55 U	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	0.248 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.271 U	0.256 U	12.7 U	3.55 U	0.24 U	0.279 U	0.286 U	0.277 U	0.256 U	0.248 U
SVOCs, SMS BNA 8270D REG															
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.925 UQ	0.479 UQ	0.477 UQ	0.476 UQ	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	3.7 U	1.91 U	1.91 U	1.9 U	3.49 U	0.371 U	1.92 U	0.357 U	1.85 U	0.389 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-E6	HIM-E6	HIM-E7	HIM-E7	HIM-F3	HIM-F3	HIM-F3	HIM-F7	HIM-F7	HIM-F7
					Sample ID	HIM-E6-18-09082016-51	HIM-E6-24-09082016-51	HIM-E7-24-09082016-51	HIM-E7-48-09082016-51	HIM-F3-06-09082016-51	HIM-F3-18-09082016-51	HIM-F3-24-09082016-51	HIM-F7-18-09092016-51	HIM-F7-18-09092016-52	HIM-F7-24-09092016-51
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/9/2016	9/9/2016	9/9/2016
					Depth (inches)	06-18	18-24	18-24	24-48	0-6	06-18	18-24	06-18	06-18	18-24
					Type	Field Sample	Field Duplicate	Field Sample							
					--	--	--	--	--	--	--	--	--	--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	9.25 U	4.79 U	4.77 U	4.76 U	8.74 U	0.928 UXQ	4.81 UXQ	0.893 U	4.63 U	0.973 U
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.925 U	0.479 U	0.477 U	1.63 J	0.874 U	0.103 J	0.481 U	0.0893 U	0.463 U	0.0973 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	3.7 U	1.91 U	1.91 U	1.9 U	3.49 U	0.371 U	1.92 U	0.357 U	1.85 U	0.389 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	3.7 U	1.91 U	1.91 U	1.9 U	3.49 U	0.371 U	1.92 U	0.357 U	1.85 U	0.389 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	9.25 U	4.79 U	4.77 U	4.76 U	8.74 U	0.928 UX	4.81 UX	0.893 U	4.63 U	0.973 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	3.7 U	1.91 U	1.91 U	1.9 U	3.49 U	0.371 U	1.92 U	0.357 U	1.85 U	0.389 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	3.7 U	1.91 U	1.91 U	1.9 U	3.49 U	0.371 U	1.92 U	0.357 U	1.85 U	0.389 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.925 UQ	0.479 UQ	0.477 UQ	0.476 UQ	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.925 UQ	0.479 UQ	0.477 UQ	0.476 UQ	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	2.94 J	0.479 U	0.516 J	0.529 J	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.112 J
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	2.06 J	0.479 U	0.516 J	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.107 J
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	4.77	0.819 J	0.909 J	0.857 J	0.874 U	0.0928 U	0.501 JD	0.0893 U	0.463 U	0.159 J
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	1.74 J	0.479 U	0.533 J	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	1.33 J	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	0.925 U	0.479 U	0.477 U	0.476 U	2.05 JB	0.0928 U	0.481 U	0.368 B	1.34 JB	0.261 JB
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Chrysene	218-01-9	mg/kg	16	1600	--	4.1	0.735 J	0.626 J	0.825 J	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.113 J
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.925 UQ	0.479 UQ	0.477 UQ	0.476 UQ	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	5.62 Q	0.549 JQ	0.698 JQ	0.767 JQ	0.874 U	0.0928 U	0.979 JD	0.0893 U	0.463 U	0.208 J



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-E6	HIM-E6	HIM-E7	HIM-E7	HIM-F3	HIM-F3	HIM-F3	HIM-F7	HIM-F7	HIM-F7	
					Sample ID	HIM-E6-18-09082016-51	HIM-E6-24-09082016-51	HIM-E7-24-09082016-51	HIM-E7-48-09082016-51	HIM-F3-06-09082016-51	HIM-F3-18-09082016-51	HIM-F3-24-09082016-51	HIM-F7-18-09092016-51	HIM-F7-18-09092016-52	HIM-F7-24-09092016-51	
					Date	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/8/2016	9/9/2016	9/9/2016	9/9/2016
					Depth (inches)	06-18	18-24	18-24	24-48	0-6	06-18	18-24	06-18	06-18	06-18	18-24
					Type	Field Sample	Field Duplicate	Field Sample								
					--	--	--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 UY	0.0928 UY	0.481 UY	0.0893 UY	0.463 UY	0.0973 UY	
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	1.96 J	0.479 U	0.497 J	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0999 J	
Isophorone	78-59-1	mg/kg	570	13000	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.925 U	0.479 U	0.477 U	1.27 J	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.925 UQ	0.479 UQ	0.477 UQ	0.476 UQ	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Pentachlorophenol	87-86-5	mg/kg	1	100	--	3.7 U	1.91 U	1.91 U	1.9 U	3.49 U	0.371 U	1.92 U	0.357 U	1.85 U	0.389 U	
Phenanthrene	85-01-8	mg/kg	NP	NP	--	2.98 J	0.479 U	0.53 J	0.736 J	0.874 U	0.146 J	0.481 U	0.0893 U	0.463 U	0.0973 U	
Phenol	108-95-2	mg/kg	1900	19000	--	0.925 U	0.479 U	0.477 U	0.476 U	0.874 U	0.0928 U	0.481 U	0.0893 U	0.463 U	0.0973 U	
Pyrene	129-00-0	mg/kg	180	1800	--	5.4	0.626 J	0.679 J	0.787 J	0.874 U	0.0928 U	0.879 JD	0.0893 U	0.463 U	0.183 J	
WC_PERCENT_SOLIDS_2540B																
% Solids	NA	%	NP	NP	--					92	88	85	88	89	85	

Notes
mg/kg - milligrams per kilogram
NP - Not Published
Sample Qualifiers
* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.
D - Diluted sample
J - The reported result is estimated.
M - Indicates that the sample matrix interfered with the quantitation of the analyte.
N - The MS/MSD accuracy and/or precision are outside criteria.
P - The associated numerical value is an estimated quantity
Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.
U - not detected above detection limit shown.
X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.
Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-G8	HIM-G8	HIM-G8	HIM-H9	HIM-H9	HIM-H9	HIM-J10	HIM-J10	HIM-J10
					Sample ID	HIM-G8-06-09092016-51	HIM-G8-18-09092016-51	HIM-G8-24-09092016-51	HIM-H9-18-09092016-51	HIM-H9-24-09092016-51	HIM-H9-48-09092016-51	HIM-J10-06-09092016-51	HIM-J10-06-09092016-52	HIM-J10-18-09092016-51
					Date	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016
					Depth (inches)	0-6	06-18	18-24	06-18	18-24	24-48	0-6	0-6	06-18
					Type	Field Sample	Field Duplicate	Field Sample						
					--	--	--	--	--	--	--	--	--	--
Metals, Mercury 7471B														
Mercury	7439-97-6	mg/kg	1.1	11	--	0.232	0.0969	0.0499	0.255	0.0918	0.0436	0.0635	0.0656	0.0914
Metals, ICP 6010C Total														
Aluminum	7429-90-5	mg/kg	7700	77000	--	5790 D	5580 D	6960 D	8290 D	5940 D	7720 D	9000 D	10900 D	15100 D
Antimony	7440-36-0	mg/kg	3.1	31	--	5.04 U	5.23 U	5.68 U	5.09 U	5.31 U	5.27 U	5.51 U	5.53 U	6.83 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	4.95 JD	5.59 JD	6.03 JD	5.25 JD	6.17 JD	5.34 JD	11.4 D	10.9 JD	12.7 JD
Barium	7440-39-3	mg/kg	1500	15000	--	828 D	1340 D	652 D	2210 D	3160 D	1650 D	232 D	221 D	130 D
Beryllium	7440-41-7	mg/kg	16	160	--	1.01 U	1.05 U	1.14 U	1.02 U	1.06 U	1.05 U	1.1 U	1.11 U	1.37 U
Cadmium	7440-43-9	mg/kg	7.1	71	--	1.59 JD	1.05 U	1.14 U	2.12 JD	1.06 U	1.05 U	1.1 U	1.11 U	1.37 U
Calcium	7440-70-2	mg/kg	NP	NP	--	1750 JD	3730 JD	4110 JD	2720 JD	7570 D	2590 JD	3910 JD	4140 JD	2190 JD
Chromium	7440-47-3	mg/kg	NP	NP	--	24.5 D	14 D	16.6 D	36.7 D	21.5 D	17.9 D	49 D	34 D	46.7 D
Cobalt	7440-48-4	mg/kg	2.3	23	--	5.04 U	5.23 U	5.68 U	5.09 U	5.31 U	5.27 U	13.1 JD	10.4 JD	10.4 JD
Copper	7440-50-8	mg/kg	310	3100	--	182 D	63.6 D	39.9 D	349 D	56.3 D	25.7 D	34.1 D	32.4 D	11 JD
Iron	7439-89-6	mg/kg	5500	55000	--	21100 D	13200 D	16800 D	23200 D	19800 D	18800 D	40800 D	31500 D	38200 D
Lead	7439-92-1	mg/kg	400	400	--	113 D	77 D	45.2 D	196 D	55.6 D	45.7 D	81.3 D	71.2 D	56.1 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	1010 U	1760 JD	1140 U	1020 U	1060 U	1050 U	1100 U	1110 U	1370 U
Manganese	7439-96-5	mg/kg	180	1800	--	269 D	295 D	346 D	267 D	327 D	316 D	1760 D	1270 D	1180 D
Nickel	7440-02-0	mg/kg	150	1500	--	18.8 D	9.9 JD	6.76 JD	33 D	14.2 D	7.53 JD	11.8 D	7.41 JD	7.8 JD
Potassium	7440-09-7	mg/kg	NP	NP	--	1010 U	1050 U	1140 U	1020 U	1060 U	1050 U	1100 U	1110 U	1370 U
Selenium	7782-49-2	mg/kg	39	390	--	3.02 U	3.14 U	3.41 U	3.05 U	3.24 JD	3.16 U	3.3 U	3.32 U	4.1 U
Silver	7440-22-4	mg/kg	39	390	--	1.01 U	1.05 U	1.14 U	2.21 JD	1.06 U	1.05 U	1.1 U	1.11 U	1.37 U
Sodium	7440-23-5	mg/kg	NP	NP	--	1010 U	1050 U	1140 U	1020 U	1060 U	1050 U	1100 U	1110 U	1370 U
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.02 U	3.14 U	3.41 U	3.05 U	3.19 U	3.16 U	3.3 U	3.32 U	4.1 U
Vanadium	7440-62-2	mg/kg	39	390	--	13.3 D	14.4 D	26.3 D	16.6 D	26.9 D	24.8 D	72.2 D	65.1 D	80.9 D
Zinc	7440-66-6	mg/kg	2300	23000	--	513 D	208 D	108 D	901 D	247 D	86 D	90.8 D	95.3 D	37 D
PCBs, PCB 8082A														
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.263 U	0.23 U	0.244 U	0.222 UX	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.263 U	0.23 U	0.244 U	0.222 U	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.263 U	0.23 U	0.244 U	0.222 U	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.263 U	0.23 U	0.244 U	0.222 UX	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.263 U	0.23 U	0.244 U	0.222 U	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.263 U	0.23 U	0.244 U	0.222 UX	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.263 U	0.23 U	0.244 U	0.805 JBD	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.263 U	0.23 U	0.244 U	0.222 U	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.263 U	0.23 U	0.244 U	0.222 U	0.244 U	0.237 U	0.264 U	0.264 U	0.313 U
SVOCs, SMS BNA 8270D REG														
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	1.73 U	0.345 U	0.371 U	3.46 U	0.35 U	0.343 U	0.356 U	0.369 U	0.431 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-G8	HIM-G8	HIM-G8	HIM-H9	HIM-H9	HIM-H9	HIM-J10	HIM-J10	HIM-J10
					Sample ID	HIM-G8-06-09092016-51	HIM-G8-18-09092016-51	HIM-G8-24-09092016-51	HIM-H9-18-09092016-51	HIM-H9-24-09092016-51	HIM-H9-48-09092016-51	HIM-J10-06-09092016-51	HIM-J10-06-09092016-52	HIM-J10-18-09092016-51
					Date	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016
					Depth (inches)	0-6	06-18	18-24	06-18	18-24	24-48	0-6	0-6	06-18
					Type	Field Sample	Field Duplicate	Field Sample						
--	--	--	--	--	--	--	--	--	--	--				
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	4.33 U	0.863 U	0.928 U	8.66 U	0.874 U	0.858 U	0.891 U	0.922 U	1.08 U
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.807	0.0891 U	0.0922 U	0.108 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	1.73 U	0.345 U	0.371 U	3.46 U	0.35 U	0.343 U	0.356 U	0.369 U	0.431 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	1.73 U	0.345 U	0.371 U	3.46 U	0.35 U	0.343 U	0.356 U	0.369 U	0.431 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	4.33 U	0.863 U	0.928 U	8.66 U	0.874 U	0.858 U	0.891 U	0.922 U	1.08 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	1.73 U	0.345 U	0.371 U	3.46 U	0.35 U	0.343 U	0.356 U	0.369 U	0.431 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	1.73 U	0.345 U	0.371 U	3.46 U	0.35 U	0.343 U	0.356 U	0.369 U	0.431 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.433 U	0.0863 U	0.105 J	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	1.07 JB	0.231 JB	0.234 JB	3.35 JB	0.843 B	0.285 JB	0.236 JB	0.231 JB	0.266 JB
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.224 J	0.0891 U	0.0922 U	0.108 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-G8	HIM-G8	HIM-G8	HIM-H9	HIM-H9	HIM-H9	HIM-J10	HIM-J10	HIM-J10
					Sample ID	HIM-G8-06-09092016-51	HIM-G8-18-09092016-51	HIM-G8-24-09092016-51	HIM-H9-18-09092016-51	HIM-H9-24-09092016-51	HIM-H9-48-09092016-51	HIM-J10-06-09092016-51	HIM-J10-06-09092016-52	HIM-J10-18-09092016-51
					Date	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016	9/9/2016
					Depth (inches)	0-6	06-18	18-24	06-18	18-24	24-48	0-6	0-6	06-18
					Type	Field Sample	Field Duplicate	Field Sample						
					--	--	--	--	--	--	--	--	--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.433 UY	0.0863 UY	0.0928 UY	0.866 UY	0.0874 UY	0.0858 UY	0.0891 UY	0.0922 UY	0.108 UY
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Isophorone	78-59-1	mg/kg	570	13000	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.603	0.0891 U	0.0922 U	0.108 U
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	1.73 U	0.345 U	0.371 U	3.46 U	0.35 U	0.343 U	0.356 U	0.369 U	0.431 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.185 J	0.0891 U	0.0922 U	0.108 U
Phenol	108-95-2	mg/kg	1900	19000	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
Pyrene	129-00-0	mg/kg	180	1800	--	0.433 U	0.0863 U	0.0928 U	0.866 U	0.0874 U	0.0858 U	0.0891 U	0.0922 U	0.108 U
WC_PERCENT_SOLIDS_2540B														
% Solids	NA	%	NP	NP	--	95	93	88	95	92	91	90	90	73

Notes
mg/kg - milligrams per kilogram
NP - Not Published
Sample Qualifiers
* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.
D - Diluted sample
J - The reported result is estimated.
M - Indicates that the sample matrix interfered with the quantitation of the analyte.
N - The MS/MSD accuracy and/or precision are outside criteria.
P - The associated numerical value is an estimated quantity
Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.
U - not detected above detection limit shown.
X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.
Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-J10
					Sample ID	HIM-J10-24-09092016-51
					Date	9/9/2016
					Depth (inches)	18-24
					Type	Field Sample
--	--					
Metals, Mercury 7471B						
Mercury	7439-97-6	mg/kg	1.1	11	--	0.039 J
Metals, ICP 6010C Total						
Aluminum	7429-90-5	mg/kg	7700	77000	--	34300 D
Antimony	7440-36-0	mg/kg	3.1	31	--	6.45 U
Arsenic	7440-38-2	mg/kg	0.68	35	--	8.76 JD
Barium	7440-39-3	mg/kg	1500	15000	--	58.5 D
Beryllium	7440-41-7	mg/kg	16	160	--	1.29 U
Cadmium	7440-43-9	mg/kg	7.1	71	--	1.29 U
Calcium	7440-70-2	mg/kg	NP	NP	--	1290 U
Chromium	7440-47-3	mg/kg	NP	NP	--	39.1 D
Cobalt	7440-48-4	mg/kg	2.3	23	--	9.81 JD
Copper	7440-50-8	mg/kg	310	3100	--	11.6 JD
Iron	7439-89-6	mg/kg	5500	55000	--	36100 D
Lead	7439-92-1	mg/kg	400	400	--	24.4 D
Magnesium	7439-95-4	mg/kg	NP	NP	--	2770 JD
Manganese	7439-96-5	mg/kg	180	1800	--	269 D
Nickel	7440-02-0	mg/kg	150	1500	--	13 D
Potassium	7440-09-7	mg/kg	NP	NP	--	1290 U
Selenium	7782-49-2	mg/kg	39	390	--	3.87 U
Silver	7440-22-4	mg/kg	39	390	--	1.29 U
Sodium	7440-23-5	mg/kg	NP	NP	--	1290 U
Thallium	7440-28-0	mg/kg	0.078	0.78	--	3.87 U
Vanadium	7440-62-2	mg/kg	39	390	--	84.3 D
Zinc	7440-66-6	mg/kg	2300	23000	--	47.8 D
PCBs, PCB 8082A						
Aroclor-1016	12674-11-2	mg/kg	0.41	4.1	--	0.318 U
Aroclor-1221	11104-28-2	mg/kg	0.2	20	--	0.318 U
Aroclor-1232	11141-16-5	mg/kg	0.17	17	--	0.318 U
Aroclor-1242	53469-21-9	mg/kg	0.23	23	--	0.318 U
Aroclor-1248	12672-29-6	mg/kg	0.23	23	--	0.318 U
Aroclor-1254	11097-69-1	mg/kg	0.12	1.2	--	0.318 U
Aroclor-1260	11096-82-5	mg/kg	0.24	24	--	0.318 U
Aroclor-1262	37324-23-5	mg/kg	NP	NP	--	0.318 U
Aroclor-1268	11100-14-4	mg/kg	NP	NP	--	0.318 U
SVOCs, SMS BNA 8270D REG						
1,1-Biphenyl	92-52-4	mg/kg	4.7	47	--	0.11 U
1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	2.3	23	--	0.11 U
1,4-Dioxane	123-91-1	mg/kg	5.3	530	--	0.11 U
2,2'-Oxybis-1-chloropropane	108-60-1	mg/kg	310	3100	--	0.11 U
2,3,4,6-Tetrachlorophenol	58-90-2	mg/kg	190	1900	--	0.11 U
2,4,5-Trichlorophenol	95-95-4	mg/kg	630	6300	--	0.11 U
2,4,6-Trichlorophenol	88-06-2	mg/kg	6.3	63	--	0.11 U
2,4-Dichlorophenol	120-83-2	mg/kg	19	190	--	0.11 U
2,4-Dimethylphenol	105-67-9	mg/kg	130	1300	--	0.439 U



Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-J10
					Sample ID	HIM-J10-24-09092016-51
					Date	9/9/2016
					Depth (inches)	18-24
					Type	Field Sample
					--	--
2,4-Dinitrophenol	51-28-5	mg/kg	13	130	--	1.1 U
2,4-Dinitrotoluene	121-14-2	mg/kg	1.7	130	--	0.11 U
2,6-Dinitrotoluene	606-20-2	mg/kg	0.36	19	--	0.11 U
2-Chloronaphthalene	91-58-7	mg/kg	480	4800	--	0.11 U
2-Chlorophenol	95-57-8	mg/kg	39	390	--	0.11 U
2-Methylnaphthalene	91-57-6	mg/kg	24	240	--	0.11 U
2-Methylphenol	95-48-7	mg/kg	320	3200	--	0.11 U
2-Nitroaniline	88-74-4	mg/kg	63	630	--	0.439 U
2-Nitrophenol	88-75-5	mg/kg	NP	NP	--	0.11 U
3,3'-Dichlorobenzidine	91-94-1	mg/kg	1.2	120	--	0.11 U
3-Methylphenol	108-39-4	mg/kg	320	3200	--	0.11 U
3-Nitroaniline	99-09-2	mg/kg	NP	NP	--	0.439 U
4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	0.51	5.1	--	1.1 U
4-Bromophenyl-phenylether	101-55-3	mg/kg	NP	NP	--	0.11 U
4-Chloro-3-methylphenol	59-50-7	mg/kg	630	6300	--	0.11 U
4-Chloroaniline	106-47-8	mg/kg	2.7	250	--	0.11 U
4-Chlorophenyl phenyl ether	7005-72-3	mg/kg	NP	NP	--	0.11 U
4-Methylphenol	106-44-5	mg/kg	630	6300	--	0.11 U
4-Nitroaniline	100-01-6	mg/kg	25	250	--	0.439 U
4-Nitrophenol	100-02-7	mg/kg	NP	NP	--	0.439 U
Acenaphthene	83-32-9	mg/kg	360	3600	--	0.11 U
Acenaphthylene	208-96-8	mg/kg	NP	NP	--	0.11 U
Acetophenone	98-86-2	mg/kg	780	7800	--	0.11 U
Anthracene	120-12-7	mg/kg	1800	18000	--	0.11 U
Atrazine	1912-24-9	mg/kg	2.4	240	--	0.11 U
Benzaldehyde	100-52-7	mg/kg	170	7800	--	0.11 U
Benzo(a)anthracene	56-55-3	mg/kg	0.16	16	--	0.11 U
Benzo(a)pyrene	50-32-8	mg/kg	0.016	1.6	--	0.11 U
Benzo(b)fluoranthene	205-99-2	mg/kg	0.16	16	--	0.11 U
Benzo(g,h,i)perylene	191-24-2	mg/kg	NP	NP	--	0.11 U
Benzo(k)fluoranthene	207-08-9	mg/kg	1.6	160	--	0.11 U
Bis(2-chloroethoxy)methane	111-91-1	mg/kg	19	190	--	0.11 U
Bis(2-chloroethyl)ether	111-44-4	mg/kg	0.23	23	--	0.11 U
Bis(2-ethylhexyl)phthalate	117-81-7	mg/kg	39	1300	--	0.264 JB
Butylbenzylphthalate	85-68-7	mg/kg	290	13000	--	0.11 U
Caprolactam	105-60-2	mg/kg	3100	31000	--	0.11 U
Carbazole	86-74-8	mg/kg	NP	NP	--	0.11 U
Chrysene	218-01-9	mg/kg	16	1600	--	0.11 U
Dibenz(a,h)anthracene	53-70-3	mg/kg	0.016	1.6	--	0.11 U
Dibenzofuran	132-64-9	mg/kg	7.3	73	--	0.11 U
Diethylphthalate	84-66-2	mg/kg	5100	51000	--	0.11 U
Dimethyl phthalate	131-11-3	mg/kg	NP	NP	--	0.11 U
Di-n-butylphthalate	84-74-2	mg/kg	630	6300	--	0.11 U
Di-n-octylphthalate	117-84-0	mg/kg	63	630	--	0.11 U
Fluoranthene	206-44-0	mg/kg	240	2400	--	0.11 U



**Table 5-1
RSL Summary of Soil Analytical Results
Hope Iron and Metal Assessment
Hope, AR**

Analyte	CAS.NO	Units	2016-05 RSL Resident Soil (THQ=0.1)	2016-05 EPA RML THQ=1 Resident Soil	Grid	HIM-J10
					Sample ID	HIM-J10-24-09092016-51
					Date	9/9/2016
					Depth (inches)	18-24
					Type	Field Sample
					--	--
Fluorene	86-73-7	mg/kg	240	2400	--	0.11 U
Hexachlorobenzene	118-74-1	mg/kg	0.21	21	--	0.11 U
Hexachlorobutadiene	87-68-3	mg/kg	1.2	78	--	0.11 U
Hexachlorocyclopentadiene	77-47-4	mg/kg	0.18	1.8	--	0.11 UY
Hexachloroethane	67-72-1	mg/kg	1.8	45	--	0.11 U
Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	0.16	16	--	0.11 U
Isophorone	78-59-1	mg/kg	570	13000	--	0.11 U
Naphthalene	91-20-3	mg/kg	3.8	130	--	0.11 U
Nitrobenzene	98-95-3	mg/kg	5.1	130	--	0.11 U
N-Nitroso-di-n-propylamine	621-64-7	mg/kg	0.078	7.8	--	0.11 U
N-Nitrosodiphenylamine	86-30-6	mg/kg	110	11000	--	0.11 U
Pentachlorophenol	87-86-5	mg/kg	1	100	--	0.439 U
Phenanthrene	85-01-8	mg/kg	NP	NP	--	0.11 U
Phenol	108-95-2	mg/kg	1900	19000	--	0.11 U
Pyrene	129-00-0	mg/kg	180	1800	--	0.11 U
WC_PERCENT_SOLIDS_2540B						
% Solids	NA	%	NP	NP	--	75

Notes

mg/kg - milligrams per kilogram

NP - Not Published

Sample Qualifiers

* - Exceeding quality control criteria are associated with the reported result.

B - This compound was also detected in the method blank and the data should be interpreted with caution. One should consider the possibility that the correct sample result might be less than the reported result and, perhaps, zero.

D - Diluted sample

J - The reported result is estimated.

M - Indicates that the sample matrix interfered with the quantitation of the analyte.

N - The MS/MSD accuracy and/or precision are outside criteria.

P - The associated numerical value is an estimated quantity

Q - The relative percent difference (RPD) and/or percent recovery exceeded limits in the associated Blank Spike and/or Blank Spike Duplicate.

U - not detected above detection limit shown.

X - The parameter shows a potential positive bias on a reported concentration due to an ICV or CCV exceeding the upper control limit on the high side.

Y - The parameter shows a potential negative bias on a reported concentration due to an ICV or CCV exceeding the lower control limit on the low side.

